

Table 2

REMARK Written by O version 6.2.1

REMARK Thu Oct 19 16:44:44 2000

CRYST1	199.450	199.450	289.130	90.00	90.00	90.00			
ORIGX1	1.000000	0.000000	0.000000			0.000000			
ORIGX2	0.000000	1.000000	0.000000			0.000000			
ORIGX3	0.000000	0.000000	1.000000			0.000000			
SCALE1	0.005014	0.000000	0.000000			0.000000			
SCALE2	0.000000	0.005014	0.000000			0.000000			
SCALE3	0.000000	0.000000	0.003459			0.000000			
ATOM	1	CB	ALA A	6	-0.674	65.559	73.225	1.00184.01	6
ATOM	2	C	ALA A	6	-1.081	63.492	71.882	1.00150.25	6
ATOM	3	O	ALA A	6	-1.961	62.636	71.787	1.00150.75	8
ATOM	4	N	ALA A	6	-2.906	65.120	72.256	1.00150.94	7
ATOM	5	CA	ALA A	6	-1.440	64.960	72.050	1.00150.69	6
ATOM	6	N	LYS A	7	0.220	63.209	71.866	1.00121.92	7
ATOM	7	CA	LYS A	7	0.729	61.855	71.667	1.00120.02	6
ATOM	8	CB	LYS A	7	-0.036	60.821	72.496	1.00156.94	6
ATOM	9	CG	LYS A	7	0.137	60.890	73.994	1.00157.98	6
ATOM	10	CD	LYS A	7	-0.665	59.764	74.624	1.00159.08	6
ATOM	11	CE	LYS A	7	-0.540	59.750	76.131	1.00160.31	6
ATOM	12	NZ	LYS A	7	-1.332	58.638	76.731	1.00161.74	7
ATOM	13	C	LYS A	7	0.489	61.553	70.201	1.00118.48	6
ATOM	14	O	LYS A	7	1.116	60.665	69.623	1.00118.87	8
ATOM	15	N	ALA A	8	-0.435	62.308	69.613	1.00 91.47	7
ATOM	16	CA	ALA A	8	-0.801	62.143	68.218	1.00 88.83	6
ATOM	17	CB	ALA A	8	-2.077	61.305	68.118	1.00 71.07	6
ATOM	18	C	ALA A	8	-1.005	63.487	67.524	1.00 86.40	6
ATOM	19	O	ALA A	8	-1.539	64.428	68.112	1.00 86.27	8
ATOM	20	N	PRO A	9	-0.549	63.597	66.267	1.00 53.91	7
ATOM	21	CD	PRO A	9	0.517	62.722	65.741	1.00 69.31	6
ATOM	22	CA	PRO A	9	-0.669	64.809	65.449	1.00 52.02	6
ATOM	23	CB	PRO A	9	0.674	64.864	64.756	1.00 68.44	6
ATOM	24	CG	PRO A	9	0.906	63.412	64.453	1.00 69.17	6
ATOM	25	C	PRO A	9	-1.824	64.699	64.450	1.00 49.71	6
ATOM	26	O	PRO A	9	-2.494	63.679	64.378	1.00 48.85	8
ATOM	27	N	VAL A	10	-2.040	65.746	63.670	1.00 56.71	7
ATOM	28	CA	VAL A	10	-3.117	65.753	62.692	1.00 55.46	6
ATOM	29	CB	VAL A	10	-4.120	66.872	63.012	1.00 55.12	6
ATOM	30	CG1	VAL A	10	-5.149	67.005	61.904	1.00 55.17	6
ATOM	31	CG2	VAL A	10	-4.795	66.581	64.335	1.00 54.29	6
ATOM	32	C	VAL A	10	-2.554	65.958	61.296	1.00 55.42	6
ATOM	33	O	VAL A	10	-2.573	67.064	60.756	1.00 55.98	8
ATOM	34	N	PHE A	11	-2.069	64.871	60.711	1.00 63.05	7
ATOM	35	CA	PHE A	11	-1.454	64.903	59.392	1.00 62.54	6
ATOM	36	CB	PHE A	11	-0.919	63.509	59.053	1.00119.96	6
ATOM	37	CG	PHE A	11	-0.075	63.460	57.809	1.00120.51	6
ATOM	38	CD1	PHE A	11	0.806	64.494	57.500	1.00120.57	6
ATOM	39	CD2	PHE A	11	-0.135	62.356	56.961	1.00121.37	6
ATOM	40	CE1	PHE A	11	1.616	64.428	56.366	1.00119.73	6
ATOM	41	CE2	PHE A	11	0.669	62.280	55.827	1.00120.93	6
ATOM	42	CZ	PHE A	11	1.547	63.318	55.527	1.00120.06	6
ATOM	43	C	PHE A	11	-2.340	65.419	58.266	1.00 62.10	6
ATOM	44	O	PHE A	11	-2.671	64.685	57.338	1.00 61.58	8
ATOM	45	N	THR A	12	-2.721	66.690	58.355	1.00 47.43	7
ATOM	46	CA	THR A	12	-3.533	67.338	57.328	1.00 47.79	6
ATOM	47	CB	THR A	12	-3.713	68.834	57.647	1.00108.24	6

ATOM	48	OG1	THR	A	12	-4.382	68.979	58.909	1.00108.66	8
ATOM	49	CG2	THR	A	12	-4.523	69.512	56.564	1.00109.46	6
ATOM	50	C	THR	A	12	-2.752	67.169	56.021	1.00 47.46	6
ATOM	51	O	THR	A	12	-1.552	66.897	56.058	1.00 47.91	8
ATOM	52	N	ALA	A	13	-3.396	67.330	54.867	1.00 38.72	7
ATOM	53	CA	ALA	A	13	-2.661	67.120	53.621	1.00 38.79	6
ATOM	54	CB	ALA	A	13	-2.509	65.590	53.374	1.00 19.61	6
ATOM	55	C	ALA	A	13	-3.163	67.803	52.350	1.00 38.10	6
ATOM	56	O	ALA	A	13	-3.149	67.194	51.295	1.00 37.13	8
ATOM	57	N	THR	A	14	-3.574	69.064	52.441	1.00 50.93	7
ATOM	58	CA	THR	A	14	-4.061	69.814	51.268	1.00 51.96	6
ATOM	59	CB	THR	A	14	-3.993	71.381	51.485	1.00 77.70	6
ATOM	60	OG1	THR	A	14	-4.992	71.801	52.429	1.00 76.23	8
ATOM	61	CG2	THR	A	14	-4.213	72.125	50.161	1.00 77.77	6
ATOM	62	C	THR	A	14	-3.253	69.477	50.007	1.00 52.16	6
ATOM	63	O	THR	A	14	-2.238	70.113	49.713	1.00 51.78	8
ATOM	64	N	THR	A	15	-3.722	68.476	49.264	1.00 38.17	7
ATOM	65	CA	THR	A	15	-3.062	68.038	48.042	1.00 39.18	6
ATOM	66	CB	THR	A	15	-3.497	66.590	47.671	1.00 21.08	6
ATOM	67	OG1	THR	A	15	-3.070	66.293	46.345	1.00 20.30	8
ATOM	68	CG2	THR	A	15	-4.988	66.426	47.736	1.00 20.79	6
ATOM	69	C	THR	A	15	-3.301	68.987	46.863	1.00 39.71	6
ATOM	70	O	THR	A	15	-3.672	70.150	47.049	1.00 38.75	8
ATOM	71	N	GLN	A	16	-3.060	68.477	45.659	1.00 87.11	7
ATOM	72	CA	GLN	A	16	-3.224	69.223	44.415	1.00 90.16	6
ATOM	73	CB	GLN	A	16	-2.064	70.199	44.226	1.00 98.47	6
ATOM	74	CG	GLN	A	16	-2.428	71.637	44.527	1.00 98.74	6
ATOM	75	CD	GLN	A	16	-3.310	72.240	43.459	1.00 98.04	6
ATOM	76	OE1	GLN	A	16	-2.845	72.994	42.603	1.00 97.07	8
ATOM	77	NE2	GLN	A	16	-4.591	71.900	43.494	1.00 98.68	7
ATOM	78	C	GLN	A	16	-3.274	68.263	43.229	1.00 91.21	6
ATOM	79	O	GLN	A	16	-3.465	67.059	43.400	1.00 91.96	8
ATOM	80	N	GLY	A	17	-3.103	68.801	42.028	1.00109.33	7
ATOM	81	CA	GLY	A	17	-3.130	67.966	40.843	1.00110.69	6
ATOM	82	C	GLY	A	17	-1.741	67.744	40.276	1.00110.89	6
ATOM	83	O	GLY	A	17	-1.408	68.262	39.208	1.00111.99	8
ATOM	84	N	ASP	A	18	-0.930	66.964	40.982	1.00 49.15	7
ATOM	85	CA	ASP	A	18	0.429	66.696	40.533	1.00 48.27	6
ATOM	86	CB	ASP	A	18	0.425	66.081	39.121	1.00 95.31	6
ATOM	87	CG	ASP	A	18	0.285	64.555	39.130	1.00 95.93	6
ATOM	88	OD1	ASP	A	18	1.109	63.883	39.785	1.00 96.31	8
ATOM	89	OD2	ASP	A	18	-0.639	64.026	38.474	1.00 95.54	8
ATOM	90	C	ASP	A	18	1.228	68.004	40.539	1.00 46.85	6
ATOM	91	O	ASP	A	18	1.470				



ATOM	104	CB	TYR	A	20	0.675	72.641	44.992	1.00	84.02	6
ATOM	105	CG	TYR	A	20	0.845	74.124	44.855	1.00	86.19	6
ATOM	106	CD1	TYR	A	20	0.937	74.719	43.593	1.00	86.75	6
ATOM	107	CE1	TYR	A	20	1.114	76.095	43.451	1.00	87.24	6
ATOM	108	CD2	TYR	A	20	0.936	74.940	45.982	1.00	87.02	6
ATOM	109	CE2	TYR	A	20	1.115	76.321	45.852	1.00	87.64	6
ATOM	110	CZ	TYR	A	20	1.203	76.889	44.581	1.00	87.77	6
ATOM	111	OH	TYR	A	20	1.389	78.244	44.436	1.00	89.34	8
ATOM	112	C	TYR	A	20	1.847	70.778	46.072	1.00	53.80	6
ATOM	113	O	TYR	A	20	2.391	69.707	45.867	1.00	54.73	8
ATOM	114	N	GLY	A	21	1.100	70.989	47.132	1.00	50.16	7
ATOM	115	CA	GLY	A	21	0.950	69.902	48.069	1.00	47.19	6
ATOM	116	C	GLY	A	21	1.471	70.248	49.442	1.00	44.51	6
ATOM	117	O	GLY	A	21	2.361	69.590	49.973	1.00	44.32	8
ATOM	118	N	GLU	A	22	0.924	71.314	50.005	1.00	39.88	7
ATOM	119	CA	GLU	A	22	1.293	71.724	51.335	1.00	37.92	6
ATOM	120	CB	GLU	A	22	0.488	72.965	51.716	1.00	62.99	6
ATOM	121	CG	GLU	A	22	0.217	73.904	50.537	1.00	64.94	6
ATOM	122	CD	GLU	A	22	-0.739	75.046	50.885	1.00	67.11	6
ATOM	123	OE1	GLU	A	22	-1.688	74.806	51.671	1.00	67.85	8
ATOM	124	OE2	GLU	A	22	-0.555	76.174	50.358	1.00	67.53	8
ATOM	125	C	GLU	A	22	0.843	70.511	52.145	1.00	35.14	6
ATOM	126	O	GLU	A	22	-0.221	69.953	51.886	1.00	35.06	8
ATOM	127	N	PHE	A	23	1.648	70.072	53.098	1.00	45.71	7
ATOM	128	CA	PHE	A	23	1.262	68.914	53.889	1.00	44.96	6
ATOM	129	CB	PHE	A	23	2.104	67.698	53.494	1.00	29.76	6
ATOM	130	CG	PHE	A	23	2.074	67.389	52.023	1.00	26.17	6
ATOM	131	CD1	PHE	A	23	0.873	67.327	51.337	1.00	26.14	6
ATOM	132	CD2	PHE	A	23	3.244	67.140	51.327	1.00	24.41	6
ATOM	133	CE1	PHE	A	23	0.844	67.019	49.981	1.00	25.18	6
ATOM	134	CE2	PHE	A	23	3.217	66.832	49.973	1.00	23.87	6
ATOM	135	CZ	PHE	A	23	2.020	66.773	49.304	1.00	24.25	6
ATOM	136	C	PHE	A	23	1.451	69.216	55.364	1.00	45.13	6
ATOM	137	O	PHE	A	23	2.564	69.127	55.880	1.00	46.47	8
ATOM	138	N	VAL	A	24	0.359	69.559	56.044	1.00	29.36	7
ATOM	139	CA	VAL	A	24	0.421	69.908	57.457	1.00	28.70	6
ATOM	140	CB	VAL	A	24	-0.710	70.840	57.891	1.00	26.37	6
ATOM	141	CG1	VAL	A	24	-0.537	71.165	59.348	1.00	27.05	6
ATOM	142	CG2	VAL	A	24	-0.716	72.115	57.074	1.00	26.62	6
ATOM	143	C	VAL	A	24	0.351	68.751	58.414	1.00	28.27	6
ATOM	144	O	VAL	A	24	-0.470	67.858	58.287	1.00	28.42	8
ATOM	145</										

ATOM	160	C	GLU	A	26	0.466	69.999	64.786	1.00120.58	6
ATOM	161	O	GLU	A	26	1.435	70.758	64.754	1.00121.90	8
ATOM	162	N	PRO	A	27	-0.027	69.541	65.959	1.00 79.42	7
ATOM	163	CD	PRO	A	27	-0.943	68.451	66.354	1.00 84.24	6
ATOM	164	CA	PRO	A	27	0.660	70.056	67.143	1.00 79.50	6
ATOM	165	CB	PRO	A	27	-0.342	69.790	68.241	1.00 83.86	6
ATOM	166	CG	PRO	A	27	-0.787	68.400	67.874	1.00 84.43	6
ATOM	167	C	PRO	A	27	1.957	69.323	67.388	1.00 81.30	6
ATOM	168	O	PRO	A	27	1.970	68.305	68.076	1.00 82.18	8
ATOM	169	N	LEU	A	28	3.045	69.827	66.819	1.00 52.55	7
ATOM	170	CA	LEU	A	28	4.337	69.190	67.014	1.00 53.38	6
ATOM	171	CB	LEU	A	28	5.204	69.324	65.756	1.00 30.51	6
ATOM	172	CG	LEU	A	28	5.135	68.133	64.788	1.00 29.10	6
ATOM	173	CD1	LEU	A	28	5.692	68.542	63.433	1.00 27.98	6
ATOM	174	CD2	LEU	A	28	5.892	66.924	65.380	1.00 28.36	6
ATOM	175	C	LEU	A	28	5.014	69.835	68.203	1.00 55.09	6
ATOM	176	O	LEU	A	28	4.938	71.047	68.383	1.00 54.89	8
ATOM	177	N	GLU	A	29	5.652	69.011	69.028	1.00 95.04	7
ATOM	178	CA	GLU	A	29	6.341	69.510	70.205	1.00 97.70	6
ATOM	179	CB	GLU	A	29	7.201	68.411	70.835	1.00135.72	6
ATOM	180	CG	GLU	A	29	6.414	67.210	71.331	1.00139.75	6
ATOM	181	CD	GLU	A	29	7.248	66.273	72.187	1.00142.12	6
ATOM	182	OE1	GLU	A	29	7.820	66.742	73.197	1.00144.19	8
ATOM	183	OE2	GLU	A	29	7.324	65.067	71.860	1.00142.16	8
ATOM	184	C	GLU	A	29	7.221	70.683	69.806	1.00 98.60	6
ATOM	185	O	GLU	A	29	7.888	70.652	68.770	1.00 98.86	8
ATOM	186	N	ARG	A	30	7.206	71.729	70.620	1.00 49.18	7
ATOM	187	CA	ARG	A	30	8.021	72.900	70.349	1.00 48.17	6
ATOM	188	CB	ARG	A	30	8.029	73.811	71.573	1.00135.75	6
ATOM	189	CG	ARG	A	30	7.710	73.099	72.883	1.00138.35	6
ATOM	190	CD	ARG	A	30	6.214	72.839	73.015	1.00140.35	6
ATOM	191	NE	ARG	A	30	5.858	72.349	74.342	1.00141.60	7
ATOM	192	CZ	ARG	A	30	4.676	72.544	74.917	1.00142.62	6
ATOM	193	NH1	ARG	A	30	3.733	73.224	74.282	1.00143.40	7
ATOM	194	NH2	ARG	A	30	4.434	72.060	76.128	1.00142.68	7
ATOM	195	C	ARG	A	30	9.449	72.499	69.996	1.00 47.03	6
ATOM	196	O	ARG	A	30	10.265	72.211	70.879	1.00 45.83	8
ATOM	197	N	GLY	A	31	9.746	72.474	68.704	1.00 86.21	7
ATOM	198	CA	GLY	A	31	11.082	72.113	68.289	1.00 85.50	6
ATOM	199	C	GLY	A	31	11.183	71.239	67.060	1.00 84.90	6
ATOM	200	O	GLY	A	31	11.913	71.569	66.127	1.00 85.07	8
ATOM	201	N	PHE	A	32	10.459	70.123	67.051	1.00 67.60	7
ATOM	202	CA	PHE	A	32	10.508	69.204	65.918	1.00 66.18	6
ATOM	203	CB	PHE	A	32	9.686	67.948	66.221	1.00 37.90	6
ATOM	204	CG	PHE	A	32	10.366	66.995	67.163	1.00 36.46	6
ATOM	205	CD1	PHE	A	32	11.292	67.448	68.090	1.00 36.18	6
ATOM	206	CD2	PHE	A	32	10.057	65.645	67.154	1.00 35.75	6
ATOM	207	CE1	PHE	A	32	11.897	66.557	68.998	1.00 36.60	6
ATOM	208	CE2	PHE	A	32	10.662	64.746	68.066	1.00 35.33	6
ATOM	209	CZ	PHE	A	32	11.573	65.200	68.979	1.00 35.10	6
ATOM	210	C	PHE	A	32	10.056	69.845	64.615	1.00 65.97	6
ATOM	211	O	PHE	A	32	10.196	69.254	63.546	1.00 65.84	8
ATOM	212	N	GLY	A	33	9.534	71.063	64.704	1.00 77.10	7
ATOM	213	CA	GLY	A	33	9.097	71.751	63.507	1.00 75.91	6
ATOM	214	C	GLY	A	33	10.094	71.568	62.376	1.00 75.60	6
ATOM	215	O	GLY	A	33	9.720	71.510	61.206	1.00 76.44	8

ATOM	216	N	VAL	A	34	11.372	71.467	62.725	1.00	52.80	7
ATOM	217	CA	VAL	A	34	12.410	71.289	61.724	1.00	51.83	6
ATOM	218	CB	VAL	A	34	13.501	72.380	61.800	1.00	59.73	6
ATOM	219	CG1	VAL	A	34	12.909	73.749	61.479	1.00	60.67	6
ATOM	220	CG2	VAL	A	34	14.141	72.363	63.168	1.00	61.37	6
ATOM	221	C	VAL	A	34	13.097	69.951	61.856	1.00	50.63	6
ATOM	222	O	VAL	A	34	13.579	69.422	60.863	1.00	51.62	8
ATOM	223	N	THR	A	35	13.154	69.392	63.063	1.00	36.90	7
ATOM	224	CA	THR	A	35	13.819	68.095	63.226	1.00	35.09	6
ATOM	225	CB	THR	A	35	13.474	67.373	64.559	1.00	52.73	6
ATOM	226	OG1	THR	A	35	13.693	68.247	65.671	1.00	53.28	8
ATOM	227	CG2	THR	A	35	14.371	66.168	64.733	1.00	52.98	6
ATOM	228	C	THR	A	35	13.309	67.240	62.088	1.00	32.97	6
ATOM	229	O	THR	A	35	14.026	66.415	61.536	1.00	32.07	8
ATOM	230	N	LEU	A	36	12.056	67.471	61.728	1.00	20.88	7
ATOM	231	CA	LEU	A	36	11.432	66.739	60.649	1.00	21.18	6
ATOM	232	CB	LEU	A	36	10.009	66.343	61.051	1.00	39.45	6
ATOM	233	CG	LEU	A	36	9.755	65.996	62.526	1.00	39.89	6
ATOM	234	CD1	LEU	A	36	8.258	65.818	62.752	1.00	41.19	6
ATOM	235	CD2	LEU	A	36	10.515	64.740	62.926	1.00	39.22	6
ATOM	236	C	LEU	A	36	11.397	67.668	59.442	1.00	21.63	6
ATOM	237	O	LEU	A	36	11.850	67.319	58.357	1.00	20.73	8
ATOM	238	N	GLY	A	37	10.875	68.868	59.666	1.00	54.11	7
ATOM	239	CA	GLY	A	37	10.742	69.862	58.616	1.00	56.99	6
ATOM	240	C	GLY	A	37	11.866	70.059	57.615	1.00	58.77	6
ATOM	241	O	GLY	A	37	11.597	70.381	56.463	1.00	60.64	8
ATOM	242	N	ASN	A	38	13.118	69.880	58.019	1.00	43.74	7
ATOM	243	CA	ASN	A	38	14.211	70.089	57.080	1.00	42.89	6
ATOM	244	CB	ASN	A	38	15.385	70.783	57.777	1.00	40.56	6
ATOM	245	CG	ASN	A	38	16.115	71.759	56.864	1.00	39.64	6
ATOM	246	OD1	ASN	A	38	16.918	71.376	56.016	1.00	38.98	8
ATOM	247	ND2	ASN	A	38	15.820	73.033	57.032	1.00	40.13	7
ATOM	248	C	ASN	A	38	14.693	68.826	56.362	1.00	42.40	6
ATOM	249	O	ASN	A	38	14.521	68.720	55.145	1.00	41.83	8
ATOM	250	N	PRO	A	39	15.282	67.851	57.094	1.00	40.48	7
ATOM	251	CD	PRO	A	39	15.267	67.679	58.555	1.00	16.97	6
ATOM	252	CA	PRO	A	39	15.770	66.620	56.463	1.00	41.24	6
ATOM	253	CB	PRO	A	39	15.764	65.618	57.618	1.00	16.06	6
ATOM	254	CG	PRO	A	39	16.131	66.439	58.747	1.00	15.86	6
ATOM	255	C	PRO	A	39	14.901	66.170	55.286	1.00	42.78	6
ATOM	256	O	PRO	A	39	15.411	65.649	54.290	1.00	42.03	

ATOM	272	NH1	ARG	A	41	15.606	71.270	53.079	1.00	80.51	7
ATOM	273	NH2	ARG	A	41	16.164	73.396	53.708	1.00	79.89	7
ATOM	274	C	ARG	A	41	14.376	68.910	51.748	1.00	76.52	6
ATOM	275	O	ARG	A	41	14.559	68.987	50.534	1.00	76.69	8
ATOM	276	N	ARG	A	42	15.333	68.559	52.598	1.00	55.69	7
ATOM	277	CA	ARG	A	42	16.665	68.228	52.117	1.00	54.23	6
ATOM	278	CB	ARG	A	42	17.559	67.759	53.266	1.00	43.27	6
ATOM	279	CG	ARG	A	42	17.965	68.846	54.226	1.00	43.46	6
ATOM	280	CD	ARG	A	42	19.175	69.576	53.713	1.00	42.80	6
ATOM	281	NE	ARG	A	42	20.400	68.918	54.144	1.00	41.66	7
ATOM	282	CZ	ARG	A	42	21.593	69.162	53.617	1.00	41.52	6
ATOM	283	NH1	ARG	A	42	21.714	70.050	52.635	1.00	40.62	7
ATOM	284	NH2	ARG	A	42	22.663	68.522	54.074	1.00	40.40	7
ATOM	285	C	ARG	A	42	16.490	67.094	51.127	1.00	52.39	6
ATOM	286	O	ARG	A	42	16.635	67.289	49.921	1.00	52.13	8
ATOM	287	N	ILE	A	43	16.150	65.914	51.650	1.00	28.41	7
ATOM	288	CA	ILE	A	43	15.961	64.731	50.827	1.00	25.56	6
ATOM	289	CB	ILE	A	43	15.265	63.585	51.616	1.00	20.13	6
ATOM	290	CG2	ILE	A	43	15.289	62.291	50.806	1.00	18.45	6
ATOM	291	CG1	ILE	A	43	16.002	63.313	52.926	1.00	19.25	6
ATOM	292	CD1	ILE	A	43	17.358	62.780	52.730	1.00	20.64	6
ATOM	293	C	ILE	A	43	15.122	65.096	49.611	1.00	24.61	6
ATOM	294	O	ILE	A	43	15.596	64.997	48.483	1.00	23.15	8
ATOM	295	N	LEU	A	44	13.891	65.538	49.834	1.00	60.43	7
ATOM	296	CA	LEU	A	44	13.022	65.900	48.721	1.00	62.04	6
ATOM	297	CB	LEU	A	44	11.928	66.843	49.205	1.00	32.70	6
ATOM	298	CG	LEU	A	44	10.914	66.119	50.078	1.00	31.74	6
ATOM	299	CD1	LEU	A	44	10.156	67.122	50.898	1.00	32.66	6
ATOM	300	CD2	LEU	A	44	9.969	65.310	49.219	1.00	31.99	6
ATOM	301	C	LEU	A	44	13.770	66.526	47.539	1.00	62.79	6
ATOM	302	O	LEU	A	44	13.569	66.130	46.387	1.00	63.37	8
ATOM	303	N	LEU	A	45	14.645	67.487	47.828	1.00	54.74	7
ATOM	304	CA	LEU	A	45	15.411	68.169	46.789	1.00	52.16	6
ATOM	305	CB	LEU	A	45	16.062	69.423	47.363	1.00	13.87	6
ATOM	306	CG	LEU	A	45	15.152	70.604	47.623	1.00	13.87	6
ATOM	307	CD1	LEU	A	45	15.843	71.586	48.516	1.00	13.87	6
ATOM	308	CD2	LEU	A	45	14.792	71.238	46.320	1.00	13.87	6
ATOM	309	C	LEU	A	45	16.494	67.306	46.167	1.00	52.20	6
ATOM	310	O	LEU	A	45	16.788	67.441	44.980	1.00	51.60	8
ATOM	311	N	SER	A	46	17.074	66.423	46.977	1.00	47.04	7
ATOM	312	CA	SER	A	46	18.169	65.550	46.556	1.00	47.85	6
ATOM	313	CB	SER	A	46	19.098	65.282	47.734	1.00	62.29	6
ATOM	314	OG	SER	A	46	19.440	66.478	48.399	1.00	64.36	8
ATOM	315	C	SER	A	46	17.793	64.207	45.965	1.00	47.22	6
ATOM	316	O	SER	A	46	17.335	64.098	44.833	1.00	47.52	8
ATOM	317	N	SER	A	47	18.015	63.171	46.754	1.00	19.54	7
ATOM	318	CA	SER	A	47	17.740	61.819	46.314	1.00	20.83	6
ATOM	319	CB	SER	A	47	18.339	60.840	47.330	1.00	47.90	6
ATOM	320	OG	SER	A	47	19.636	61.245	47.740	1.00	48.74	8
ATOM	321	C	SER	A	47	16.240	61.523	46.111	1.00	20.87	6
ATOM	322	O	SER	A	47	15.415	61.785	46.986	1.00	21.06	8
ATOM	323	N	ILE	A	48	15.900	60.977	44.953	1.00	46.59	7
ATOM	324	CA	ILE	A	48	14.528	60.621	44.624	1.00	48.06	6
ATOM	325	CB	ILE	A	48	13.512	61.749	44.878	1.00	13.87	6
ATOM	326	CG2	ILE	A	48	12.415	61.715	43.809	1.00	13.87	6
ATOM	327	CG1	ILE	A	48	12.859	61.582	46.244	1.00	13.87	6

ATOM	328	CD1	ILE	A	48	11.777	62.610	46.523	1.00	13.87	6
ATOM	329	C	ILE	A	48	14.472	60.333	43.151	1.00	50.88	6
ATOM	330	O	ILE	A	48	14.926	61.135	42.337	1.00	52.63	8
ATOM	331	N	PRO	A	49	13.902	59.185	42.783	1.00	39.58	7
ATOM	332	CD	PRO	A	49	13.394	58.110	43.655	1.00	145.29	6
ATOM	333	CA	PRO	A	49	13.797	58.814	41.377	1.00	39.89	6
ATOM	334	CB	PRO	A	49	12.979	57.525	41.428	1.00	145.15	6
ATOM	335	CG	PRO	A	49	13.408	56.916	42.729	1.00	146.08	6
ATOM	336	C	PRO	A	49	13.122	59.903	40.544	1.00	40.28	6
ATOM	337	O	PRO	A	49	12.250	60.639	41.028	1.00	39.98	8
ATOM	338	N	GLY	A	50	13.547	59.985	39.286	1.00	41.27	7
ATOM	339	CA	GLY	A	50	13.005	60.947	38.349	1.00	40.92	6
ATOM	340	C	GLY	A	50	13.190	60.493	36.911	1.00	39.90	6
ATOM	341	O	GLY	A	50	13.762	59.439	36.615	1.00	38.85	8
ATOM	342	N	THR	A	51	12.704	61.315	36.001	1.00	41.55	7
ATOM	343	CA	THR	A	51	12.794	61.010	34.593	1.00	42.82	6
ATOM	344	CB	THR	A	51	11.383	60.828	33.998	1.00	61.58	6
ATOM	345	OG1	THR	A	51	10.709	62.095	33.965	1.00	63.80	8
ATOM	346	CG2	THR	A	51	10.569	59.864	34.849	1.00	62.73	6
ATOM	347	C	THR	A	51	13.482	62.176	33.890	1.00	41.48	6
ATOM	348	O	THR	A	51	13.023	63.323	33.985	1.00	40.65	8
ATOM	349	N	ALA	A	52	14.584	61.893	33.194	1.00	29.66	7
ATOM	350	CA	ALA	A	52	15.298	62.941	32.469	1.00	30.42	6
ATOM	351	CB	ALA	A	52	16.441	63.462	33.312	1.00	77.76	6
ATOM	352	C	ALA	A	52	15.823	62.519	31.106	1.00	29.19	6
ATOM	353	O	ALA	A	52	16.153	61.364	30.883	1.00	27.97	8
ATOM	354	N	VAL	A	53	15.887	63.478	30.195	1.00	33.16	7
ATOM	355	CA	VAL	A	53	16.400	63.247	28.849	1.00	33.88	6
ATOM	356	CB	VAL	A	53	16.381	64.569	28.066	1.00	31.89	6
ATOM	357	CG1	VAL	A	53	16.599	64.340	26.574	1.00	31.71	6
ATOM	358	CG2	VAL	A	53	15.084	65.270	28.335	1.00	31.88	6
ATOM	359	C	VAL	A	53	17.856	62.776	28.970	1.00	34.18	6
ATOM	360	O	VAL	A	53	18.671	63.447	29.595	1.00	34.70	8
ATOM	361	N	THR	A	54	18.212	61.645	28.382	1.00	53.17	7
ATOM	362	CA	THR	A	54	19.596	61.222	28.518	1.00	55.64	6
ATOM	363	CB	THR	A	54	19.689	59.742	28.906	1.00	54.68	6
ATOM	364	OG1	THR	A	54	19.168	59.570	30.227	1.00	55.11	8
ATOM	365	CG2	THR	A	54	21.141	59.269	28.885	1.00	55.71	6
ATOM	366	C	THR	A	54	20.464	61.470	27.294	1.00	56.10	6
ATOM	367	O	THR	A	54	21.642	61.817	27.437	1.00	56.71	8
ATOM	368	N	SER	A	55	19.881	61.302	26.102	1.00	42.59	7
ATOM	369	CA	SER	A	55	20.595	61.492	24.830	1.00	43.27	6
ATOM	370	CB	SER	A	55	21.444	60.253	24.536	1.00	30.83	6
ATOM	371	OG	SER	A	55	22.262	60.453	23.409	1.00	31.95	8
ATOM	372	C	SER	A	55	19.624	61.754	23.669	1.00	42.60	6
ATOM	373	O	SER	A	55	18.516	61.222	23.641	1.00	41.99	8
ATOM	374	N	VAL	A	56	20.042	62.567	22.707	1.00	49.56	7
ATOM	375	CA	VAL	A	56	19.167	62.893	21.585	1.00	51.39	6
ATOM	376	CB	VAL	A	56	18.463	64.291	21.818	1.00	18.02	6
ATOM	377	CG1	VAL	A	56	18.759	64.775	23.223	1.00	17.77	6
ATOM	378	CG2	VAL	A	56	18.899	65.343	20.784	1.00	15.68	6
ATOM	379	C	VAL	A	56	19.843	62.892	20.219	1.00	52.77	6
ATOM	380	O	VAL	A	56	20.836	63.586	20.009	1.00	53.75	8
ATOM	381	N	TYR	A	57	19.306	62.103	19.292	1.00	49.16	7
ATOM	382	CA	TYR	A	57	19.842	62.065	17.935	1.00	50.62	6
ATOM	383	CB	TYR	A	57	19.973	60.627	17.431	1.00	56.89	6

ATOM	384	CG	TYR	A	57	20.071	60.507	15.908	1.00	55.88	6
ATOM	385	CD1	TYR	A	57	21.230	60.024	15.295	1.00	55.45	6
ATOM	386	CE1	TYR	A	57	21.305	59.879	13.911	1.00	54.69	6
ATOM	387	CD2	TYR	A	57	18.991	60.848	15.084	1.00	55.26	6
ATOM	388	CE2	TYR	A	57	19.061	60.710	13.710	1.00	54.91	6
ATOM	389	CZ	TYR	A	57	20.216	60.222	13.130	1.00	54.94	6
ATOM	390	OH	TYR	A	57	20.270	60.047	11.770	1.00	55.85	8
ATOM	391	C	TYR	A	57	18.933	62.836	16.977	1.00	51.34	6
ATOM	392	O	TYR	A	57	17.713	62.680	16.997	1.00	51.30	8
ATOM	393	N	ILE	A	58	19.529	63.651	16.120	1.00	48.33	7
ATOM	394	CA	ILE	A	58	18.738	64.390	15.160	1.00	50.45	6
ATOM	395	CB	ILE	A	58	18.904	65.906	15.341	1.00	43.10	6
ATOM	396	CG2	ILE	A	58	18.130	66.651	14.254	1.00	42.04	6
ATOM	397	CG1	ILE	A	58	18.379	66.317	16.712	1.00	42.84	6
ATOM	398	CD1	ILE	A	58	18.051	67.801	16.816	1.00	44.49	6
ATOM	399	C	ILE	A	58	19.107	63.991	13.733	1.00	51.73	6
ATOM	400	O	ILE	A	58	20.239	63.590	13.457	1.00	50.59	8
ATOM	401	N	GLU	A	59	18.127	64.110	12.841	1.00	92.68	7
ATOM	402	CA	GLU	A	59	18.267	63.761	11.430	1.00	95.41	6
ATOM	403	CB	GLU	A	59	17.209	64.501	10.598	1.00	103.73	6
ATOM	404	CG	GLU	A	59	17.103	64.033	9.140	1.00	105.12	6
ATOM	405	CD	GLU	A	59	16.435	62.663	8.974	1.00	106.04	6
ATOM	406	OE1	GLU	A	59	16.917	61.675	9.571	1.00	106.23	8
ATOM	407	OE2	GLU	A	59	15.429	62.569	8.234	1.00	106.36	8
ATOM	408	C	GLU	A	59	19.646	64.019	10.836	1.00	95.22	6
ATOM	409	O	GLU	A	59	20.574	63.238	11.038	1.00	95.27	8
ATOM	410	N	ASP	A	60	19.776	65.119	10.104	1.00	54.07	7
ATOM	411	CA	ASP	A	60	21.039	65.455	9.451	1.00	54.95	6
ATOM	412	CB	ASP	A	60	20.755	66.216	8.148	1.00	121.45	6
ATOM	413	CG	ASP	A	60	19.988	65.380	7.130	1.00	123.20	6
ATOM	414	OD1	ASP	A	60	20.519	64.343	6.672	1.00	124.19	8
ATOM	415	OD2	ASP	A	60	18.851	65.760	6.778	1.00	123.59	8
ATOM	416	C	ASP	A	60	22.016	66.261	10.311	1.00	54.33	6
ATOM	417	O	ASP	A	60	22.484	67.321	9.896	1.00	54.17	8
ATOM	418	N	VAL	A	61	22.351	65.757	11.496	1.00	54.31	7
ATOM	419	CA	VAL	A	61	23.268	66.491	12.363	1.00	55.07	6
ATOM	420	CB	VAL	A	61	22.507	67.192	13.511	1.00	62.32	6
ATOM	421	CG1	VAL	A	61	23.498	67.801	14.504	1.00	62.29	6
ATOM	422	CG2	VAL	A	61	21.600	68.275	12.939	1.00	62.30	6
ATOM	423	C	VAL	A	61	24.389	65.663	12.970	1.00	54.97	6
ATOM	424	O	VAL	A	61	24.152	64.798	13.808	1.00	54.94	8
ATOM	425	N	LEU	A	62	25.614	65.965	12.552	1.00	73.57	7
ATOM	426	CA	LEU	A	62	26.790	65.274	13.040	1.00	74.33	6
ATOM	427	CB	LEU	A	62	28.035	65.900	12.438	1.00	68.22	6
ATOM	428	CG	LEU	A	62	28.478	65.236	11.138	1.00	68.33	6
ATOM	429	CD1	LEU	A	62	29.514	66.087	10.432	1.00	68.18	6
ATOM	430	CD2	LEU	A	62	29.033	63.854	11.463	1.00	68.59	6
ATOM	431	C	LEU	A	62	26.891	65.266	14.554	1.00	74.75	6
ATOM	432	O	LEU	A	62	26.801	64.211	15.162	1.00	75.89	8
ATOM	433	N	HIS	A	63	27.095	66.430	15.162	1.00	68.14	7
ATOM	434	CA	HIS	A	63	27.188	66.533	16.622	1.00	68.73	6
ATOM	435	CB	HIS	A	63	28.612	66.247	17.112	1.00	109.32	6
ATOM	436	CG	HIS	A	63	28.817	64.842	17.598	1.00	111.08	6
ATOM	437	CD2	HIS	A	63	28.015	63.753	17.545	1.00	111.66	6
ATOM	438	ND1	HIS	A	63	29.970	64.436	18.234	1.00	112.16	7
ATOM	439	CE1	HIS	A	63	29.868	63.157	18.552	1.00	112.77	6

ATOM	440	NE2	HIS	A	63	28.692	62.719	18.144	1.00112.76	7
ATOM	441	C	HIS	A	63	26.760	67.921	17.067	1.00 67.23	6
ATOM	442	O	HIS	A	63	26.497	68.774	16.225	1.00 67.52	8
ATOM	443	N	GLU	A	64	26.687	68.145	18.380	1.00 95.10	7
ATOM	444	CA	GLU	A	64	26.269	69.438	18.922	1.00 93.64	6
ATOM	445	CB	GLU	A	64	26.480	69.480	20.439	1.00 79.44	6
ATOM	446	CG	GLU	A	64	25.731	70.615	21.143	1.00 80.88	6
ATOM	447	CD	GLU	A	64	25.248	70.242	22.554	1.00 81.25	6
ATOM	448	OE1	GLU	A	64	25.604	69.147	23.047	1.00 81.28	8
ATOM	449	OE2	GLU	A	64	24.508	71.045	23.174	1.00 81.64	8
ATOM	450	C	GLU	A	64	27.054	70.548	18.240	1.00 91.41	6
ATOM	451	O	GLU	A	64	28.046	70.278	17.562	1.00 92.49	8
ATOM	452	N	PHE	A	65	26.617	71.791	18.420	1.00 22.51	7
ATOM	453	CA	PHE	A	65	27.266	72.948	17.782	1.00 20.38	6
ATOM	454	CB	PHE	A	65	28.801	72.924	17.954	1.00 28.12	6
ATOM	455	CG	PHE	A	65	29.236	72.710	19.363	1.00 24.54	6
ATOM	456	CD1	PHE	A	65	29.535	71.434	19.827	1.00 22.93	6
ATOM	457	CD2	PHE	A	65	29.224	73.757	20.267	1.00 23.17	6
ATOM	458	CE1	PHE	A	65	29.804	71.197	21.170	1.00 21.54	6
ATOM	459	CE2	PHE	A	65	29.489	73.530	21.616	1.00 21.40	6
ATOM	460	CZ	PHE	A	65	29.777	72.247	22.062	1.00 20.54	6
ATOM	461	C	PHE	A	65	26.924	72.930	16.294	1.00 19.54	6
ATOM	462	O	PHE	A	65	27.787	73.189	15.447	1.00 17.93	8
ATOM	463	N	SER	A	66	25.660	72.621	15.990	1.00107.08	7
ATOM	464	CA	SER	A	66	25.167	72.543	14.614	1.00108.68	6
ATOM	465	CB	SER	A	66	24.507	71.186	14.365	1.00131.29	6
ATOM	466	OG	SER	A	66	25.451	70.136	14.446	1.00132.76	8
ATOM	467	C	SER	A	66	24.184	73.648	14.239	1.00107.83	6
ATOM	468	O	SER	A	66	24.159	74.706	14.859	1.00109.21	8
ATOM	469	N	THR	A	67	23.368	73.384	13.223	1.00 37.78	7
ATOM	470	CA	THR	A	67	22.399	74.358	12.731	1.00 37.55	6
ATOM	471	CB	THR	A	67	23.084	75.605	12.161	1.00 38.25	6
ATOM	472	OG1	THR	A	67	22.154	76.305	11.322	1.00 36.51	8
ATOM	473	CG2	THR	A	67	24.319	75.214	11.337	1.00 36.90	6
ATOM	474	C	THR	A	67	21.540	73.785	11.614	1.00 37.84	6
ATOM	475	O	THR	A	67	21.777	74.052	10.435	1.00 38.15	8
ATOM	476	N	ILE	A	68	20.535	73.011	12.005	1.00 72.99	7
ATOM	477	CA	ILE	A	68	19.602	72.365	11.088	1.00 74.27	6
ATOM	478	CB	ILE	A	68	18.499	71.679	11.878	1.00 43.22	6
ATOM	479	CG2	ILE	A	68	17.632	70.891	10.946	1.00 43.12	6
ATOM	480	CG1	ILE	A	68	19.109	70.788	12.957	1.00 42.80	6
ATOM	481	CD1	ILE	A	68	18.125	70.363	14.024	1.00 42.11	6
ATOM	482	C	ILE	A	68	18.915	73.306	10.093	1.00 74.17	6
ATOM	483	O	ILE	A	68	17.998	74.036	10.470	1.00 75.51	8
ATOM	484	N	PRO	A	69	19.335	73.293	8.808	1.00 47.83	7
ATOM	485	CD	PRO	A	69	20.552	72.652	8.266	1.00 30.92	6
ATOM	486	CA	PRO	A	69	18.723	74.161	7.790	1.00 48.16	6
ATOM	487	CB	PRO	A	69	19.365	73.676	6.497	1.00 30.11	6
ATOM	488	CG	PRO	A	69	20.781	73.419	6.965	1.00 30.52	6
ATOM	489	C	PRO	A	69	17.204	74.102	7.739	1.00 46.97	6
ATOM	490	O	PRO	A	69	16.616	73.020	7.661	1.00 46.45	8
ATOM	491	N	GLY	A	70	16.586	75.283	7.799	1.00 82.64	7
ATOM	492	CA	GLY	A	70	15.138	75.393	7.753	1.00 83.42	6
ATOM	493	C	GLY	A	70	14.471	75.570	9.106	1.00 83.11	6
ATOM	494	O	GLY	A	70	13.249	75.722	9.188	1.00 83.49	8
ATOM	495	N	VAL	A	71	15.266	75.548	10.170	1.00 25.92	7

ATOM	496	CA	VAL	A	71	14.738	75.700	11.519	1.00	25.88	6
ATOM	497	CB	VAL	A	71	15.182	74.528	12.462	1.00	69.23	6
ATOM	498	CG1	VAL	A	71	14.438	74.612	13.787	1.00	69.55	6
ATOM	499	CG2	VAL	A	71	14.923	73.176	11.811	1.00	69.40	6
ATOM	500	C	VAL	A	71	15.254	76.995	12.109	1.00	24.57	6
ATOM	501	O	VAL	A	71	16.385	77.396	11.857	1.00	23.69	8
ATOM	502	N	LYS	A	72	14.422	77.642	12.910	1.00	61.33	7
ATOM	503	CA	LYS	A	72	14.794	78.891	13.559	1.00	61.86	6
ATOM	504	CB	LYS	A	72	13.567	79.514	14.227	1.00	80.38	6
ATOM	505	CG	LYS	A	72	13.835	80.872	14.830	1.00	81.39	6
ATOM	506	CD	LYS	A	72	12.590	81.460	15.447	1.00	82.45	6
ATOM	507	CE	LYS	A	72	12.867	82.860	15.951	1.00	83.55	6
ATOM	508	NZ	LYS	A	72	11.769	83.344	16.827	1.00	85.83	7
ATOM	509	C	LYS	A	72	15.885	78.689	14.601	1.00	61.01	6
ATOM	510	O	LYS	A	72	16.965	79.264	14.503	1.00	60.86	8
ATOM	511	N	GLU	A	73	15.580	77.860	15.593	1.00	37.71	7
ATOM	512	CA	GLU	A	73	16.475	77.557	16.702	1.00	38.31	6
ATOM	513	CB	GLU	A	73	15.911	76.368	17.489	1.00	60.62	6
ATOM	514	CG	GLU	A	73	14.399	76.363	17.551	1.00	63.75	6
ATOM	515	CD	GLU	A	73	13.844	77.717	17.925	1.00	65.67	6
ATOM	516	OE1	GLU	A	73	13.822	78.040	19.130	1.00	66.19	8
ATOM	517	OE2	GLU	A	73	13.444	78.467	17.009	1.00	67.76	8
ATOM	518	C	GLU	A	73	17.945	77.287	16.367	1.00	37.99	6
ATOM	519	O	GLU	A	73	18.520	77.864	15.445	1.00	38.72	8
ATOM	520	N	ASP	A	74	18.534	76.388	17.151	1.00	82.96	7
ATOM	521	CA	ASP	A	74	19.935	75.994	17.037	1.00	81.66	6
ATOM	522	CB	ASP	A	74	20.808	77.116	17.581	1.00	54.13	6
ATOM	523	CG	ASP	A	74	22.192	76.656	17.930	1.00	52.60	6
ATOM	524	OD1	ASP	A	74	22.333	75.533	18.467	1.00	50.96	8
ATOM	525	OD2	ASP	A	74	23.137	77.433	17.683	1.00	52.36	8
ATOM	526	C	ASP	A	74	20.085	74.747	17.903	1.00	80.79	6
ATOM	527	O	ASP	A	74	19.780	74.783	19.090	1.00	81.18	8
ATOM	528	N	VAL	A	75	20.584	73.661	17.326	1.00	40.61	7
ATOM	529	CA	VAL	A	75	20.710	72.400	18.055	1.00	38.44	6
ATOM	530	CB	VAL	A	75	21.747	71.469	17.412	1.00	21.23	6
ATOM	531	CG1	VAL	A	75	21.643	70.059	18.019	1.00	17.92	6
ATOM	532	CG2	VAL	A	75	21.539	71.446	15.904	1.00	20.66	6
ATOM	533	C	VAL	A	75	21.040	72.538	19.530	1.00	38.36	6
ATOM	534	O	VAL	A	75	20.438	71.853	20.362	1.00	38.29	8
ATOM	535	N	VAL	A	76	21.987	73.411	19.864	1.00	74.82	7
ATOM	536	CA	VAL	A	76	22.347	73.584	21.267	1.00	75.22	6
ATOM	537	CB	VAL	A	76	23.393	74.690	21.484	1.00	34.21	6
ATOM	538	CG1	VAL	A	76	23.993	74.554	22.876	1.00	34.49	6
ATOM	539	CG2	VAL	A	76	24.480	74.592	20.448	1.00	34.06	6
ATOM	540	C	VAL	A	76	21.067	73.977	21.967	1.00	76.36	6
ATOM	541	O	VAL	A	76	20.603	73.271	22.866	1.00	76.45	8
ATOM	542	N	GLU	A	77	20.494	75.098	21.534	1.00	77.76	7
ATOM	543	CA	GLU	A	77	19.235	75.587	22.082	1.00	76.31	6
ATOM	544	CB	GLU	A	77	18.611	76.604	21.133	1.00	63.33	6
ATOM	545	CG	GLU	A	77	18.347	77.953	21.750	1.00	64.17	6
ATOM	546	CD	GLU	A	77	17.173	78.659	21.102	1.00	64.78	6
ATOM	547	OE1	GLU	A	77	16.026	78.202	21.309	1.00	64.71	8
ATOM	548	OE2	GLU	A	77	17.394	79.660	20.387	1.00	65.41	8
ATOM	549	C	GLU	A	77	18.295	74.393	22.206	1.00	75.12	6
ATOM	550	O	GLU	A	77	17.823	74.062	23.293	1.00	75.46	8
ATOM	551	N	ILE	A	78	18.038	73.755	21.066	1.00	32.87	7



ATOM	552	CA	ILE	A	78	17.176	72.583	20.982	1.00	30.59	6
ATOM	553	CB	ILE	A	78	17.406	71.828	19.661	1.00	32.78	6
ATOM	554	CG2	ILE	A	78	16.570	70.569	19.627	1.00	31.04	6
ATOM	555	CG1	ILE	A	78	17.049	72.743	18.482	1.00	33.50	6
ATOM	556	CD1	ILE	A	78	17.468	72.214	17.114	1.00	34.08	6
ATOM	557	C	ILE	A	78	17.462	71.645	22.136	1.00	30.32	6
ATOM	558	O	ILE	A	78	16.544	71.190	22.818	1.00	29.37	8
ATOM	559	N	ILE	A	79	18.737	71.361	22.362	1.00	37.89	7
ATOM	560	CA	ILE	A	79	19.094	70.471	23.441	1.00	39.91	6
ATOM	561	CB	ILE	A	79	20.512	69.954	23.281	1.00	45.66	6
ATOM	562	CG2	ILE	A	79	20.957	69.240	24.534	1.00	45.36	6
ATOM	563	CG1	ILE	A	79	20.561	68.981	22.113	1.00	46.47	6
ATOM	564	CD1	ILE	A	79	21.890	68.301	21.967	1.00	48.56	6
ATOM	565	C	ILE	A	79	18.951	71.160	24.784	1.00	41.42	6
ATOM	566	O	ILE	A	79	18.754	70.499	25.810	1.00	42.07	8
ATOM	567	N	LEU	A	80	19.050	72.488	24.786	1.00	89.16	7
ATOM	568	CA	LEU	A	80	18.912	73.250	26.023	1.00	89.46	6
ATOM	569	CB	LEU	A	80	19.462	74.678	25.856	1.00	35.09	6
ATOM	570	CG	LEU	A	80	20.982	74.838	26.063	1.00	34.34	6
ATOM	571	CD1	LEU	A	80	21.423	76.281	25.845	1.00	34.07	6
ATOM	572	CD2	LEU	A	80	21.331	74.392	27.482	1.00	33.85	6
ATOM	573	C	LEU	A	80	17.447	73.279	26.425	1.00	89.37	6
ATOM	574	O	LEU	A	80	17.120	73.370	27.609	1.00	90.96	8
ATOM	575	N	ASN	A	81	16.569	73.189	25.428	1.00	41.89	7
ATOM	576	CA	ASN	A	81	15.134	73.170	25.674	1.00	41.74	6
ATOM	577	CB	ASN	A	81	14.362	73.564	24.412	1.00	69.15	6
ATOM	578	CG	ASN	A	81	14.578	75.019	24.024	1.00	70.45	6
ATOM	579	OD1	ASN	A	81	15.661	75.406	23.595	1.00	70.24	8
ATOM	580	ND2	ASN	A	81	13.542	75.833	24.180	1.00	71.82	7
ATOM	581	C	ASN	A	81	14.731	71.766	26.125	1.00	40.96	6
ATOM	582	O	ASN	A	81	14.149	71.601	27.200	1.00	40.05	8
ATOM	583	N	LEU	A	82	15.053	70.755	25.316	1.00	63.42	7
ATOM	584	CA	LEU	A	82	14.724	69.372	25.667	1.00	64.05	6
ATOM	585	CB	LEU	A	82	15.370	68.366	24.700	1.00	58.81	6
ATOM	586	CG	LEU	A	82	14.932	68.301	23.231	1.00	59.30	6
ATOM	587	CD1	LEU	A	82	15.628	67.112	22.568	1.00	58.70	6
ATOM	588	CD2	LEU	A	82	13.411	68.159	23.123	1.00	59.58	6
ATOM	589	C	LEU	A	82	15.200	69.062	27.074	1.00	64.25	6
ATOM	590	O	LEU	A	82	14.629	68.233	27.766	1.00	64.54	8
ATOM	591	N	LYS	A	83	16.255	69.730	27.504	1.00	93.29	7
ATOM	592	CA	LYS	A	83	16.771	69.490	28.835	1.00	95.39	6
ATOM	593	CB	LYS	A	83	17.951	70.441	29.100	1.00	57.62	6
ATOM	594	CG	LYS	A	83	18.613	70.272	30.464	1.00	58.61	6
ATOM	595	CD	LYS	A	83	19.963	70.983	30.554	1.00	58.45	6
ATOM	596	CE	LYS	A	83	21.016	70.259	29.735	1.00	58.82	6
ATOM	597	NZ	LYS	A	83	22.365	70.853	29.907	1.00	57.41	7
ATOM	598	C	LYS	A	83	15.651	69.675	29.871	1.00	96.28	6
ATOM	599	O	LYS	A	83	15.738	69.164	30.990	1.00	97.41	8
ATOM	600	N	GLU	A	84	14.583	70.368	29.472	1.00	83.14	7
ATOM	601	CA	GLU	A	84	13.446	70.653	30.354	1.00	83.07	6
ATOM	602	CB	GLU	A	84	13.032	72.108	30.185	1.00	62.64	6
ATOM	603	CG	GLU	A	84	14.028	73.098	30.716	1.00	63.41	6
ATOM	604	CD	GLU	A	84	13.747	74.495	30.214	1.00	65.27	6
ATOM	605	OE1	GLU	A	84	12.552	74.877	30.155	1.00	66.33	8
ATOM	606	OE2	GLU	A	84	14.719	75.216	29.883	1.00	66.86	8
ATOM	607	C	GLU	A	84	12.200	69.779	30.191	1.00	82.17	6

ATOM	608	O	GLU	A	84	11.248	69.902	30.957	1.00	82.78	8
ATOM	609	N	LEU	A	85	12.199	68.913	29.189	1.00	32.42	7
ATOM	610	CA	LEU	A	85	11.065	68.033	28.929	1.00	30.61	6
ATOM	611	CB	LEU	A	85	11.322	67.244	27.649	1.00	29.83	6
ATOM	612	CG	LEU	A	85	10.253	66.272	27.182	1.00	28.15	6
ATOM	613	CD1	LEU	A	85	9.219	67.034	26.338	1.00	27.30	6
ATOM	614	CD2	LEU	A	85	10.921	65.138	26.386	1.00	27.81	6
ATOM	615	C	LEU	A	85	10.857	67.065	30.086	1.00	30.06	6
ATOM	616	O	LEU	A	85	11.779	66.380	30.499	1.00	28.59	8
ATOM	617	N	VAL	A	86	9.645	67.007	30.617	1.00	42.85	6
ATOM	618	CA	VAL	A	86	9.384	66.093	31.716	1.00	43.95	6
ATOM	619	CB	VAL	A	86	8.760	66.804	32.932	1.00	39.00	6
ATOM	620	CG1	VAL	A	86	7.557	67.620	32.527	1.00	38.89	6
ATOM	621	CG2	VAL	A	86	8.368	65.766	33.960	1.00	40.01	6
ATOM	622	C	VAL	A	86	8.462	64.972	31.298	1.00	43.36	6
ATOM	623	O	VAL	A	86	7.309	65.215	30.938	1.00	43.19	8
ATOM	624	N	VAL	A	87	8.966	63.743	31.351	1.00	21.15	7
ATOM	625	CA	VAL	A	87	8.154	62.603	30.958	1.00	23.38	6
ATOM	626	CB	VAL	A	87	8.903	61.625	30.004	1.00	39.94	6
ATOM	627	CG1	VAL	A	87	9.272	62.330	28.711	1.00	40.80	6
ATOM	628	CG2	VAL	A	87	10.139	61.075	30.676	1.00	42.12	6
ATOM	629	C	VAL	A	87	7.702	61.822	32.157	1.00	24.21	6
ATOM	630	O	VAL	A	87	8.396	61.768	33.169	1.00	23.51	8
ATOM	631	N	ARG	A	88	6.512	61.243	32.026	1.00	76.51	7
ATOM	632	CA	ARG	A	88	5.903	60.411	33.049	1.00	80.48	6
ATOM	633	CB	ARG	A	88	4.408	60.688	33.132	1.00	63.66	6
ATOM	634	CG	ARG	A	88	3.694	59.846	34.164	1.00	64.46	6
ATOM	635	CD	ARG	A	88	2.414	60.503	34.634	1.00	65.19	6
ATOM	636	NE	ARG	A	88	1.763	59.729	35.683	1.00	66.10	7
ATOM	637	CZ	ARG	A	88	0.793	60.196	36.463	1.00	68.02	6
ATOM	638	NH1	ARG	A	88	0.259	59.417	37.392	1.00	69.40	7
ATOM	639	NH2	ARG	A	88	0.356	61.443	36.322	1.00	68.70	7
ATOM	640	C	ARG	A	88	6.142	59.014	32.517	1.00	82.14	6
ATOM	641	O	ARG	A	88	6.387	58.861	31.326	1.00	83.19	8
ATOM	642	N	PHE	A	89	6.073	57.991	33.362	1.00	58.23	7
ATOM	643	CA	PHE	A	89	6.326	56.644	32.862	1.00	61.38	6
ATOM	644	CB	PHE	A	89	7.625	56.125	33.483	1.00	54.32	6
ATOM	645	CG	PHE	A	89	8.849	56.458	32.668	1.00	52.53	6
ATOM	646	CD1	PHE	A	89	8.843	57.539	31.788	1.00	51.76	6
ATOM	647	CD2	PHE	A	89	9.994	55.672	32.752	1.00	51.86	6
ATOM	648	CE1	PHE	A	89	9.953	57.831	31.009	1.00	50.89	6
ATOM	649	CE2									

ATOM	664	CG	ASP	A	91	6.246	50.931	32.855	1.00111.18	6
ATOM	665	OD1	ASP	A	91	6.576	51.826	32.056	1.00111.61	8
ATOM	666	OD2	ASP	A	91	7.003	49.995	33.190	1.00112.73	8
ATOM	667	C	ASP	A	91	6.240	51.764	35.345	1.00111.70	6
ATOM	668	O	ASP	A	91	6.993	52.736	35.366	1.00112.36	8
ATOM	669	N	PRO	A	92	6.596	50.577	35.856	1.00 72.17	7
ATOM	670	CD	PRO	A	92	5.630	49.603	36.396	1.00138.10	6
ATOM	671	CA	PRO	A	92	7.910	50.389	36.475	1.00 72.33	6
ATOM	672	CB	PRO	A	92	7.560	49.702	37.781	1.00138.16	6
ATOM	673	CG	PRO	A	92	6.484	48.769	37.341	1.00138.73	6
ATOM	674	C	PRO	A	92	8.902	49.564	35.655	1.00 71.96	6
ATOM	675	O	PRO	A	92	8.517	48.719	34.844	1.00 71.56	8
ATOM	676	N	ALA	A	93	10.186	49.841	35.874	1.00162.67	7
ATOM	677	CA	ALA	A	93	11.286	49.132	35.225	1.00162.90	6
ATOM	678	CB	ALA	A	93	11.106	47.636	35.429	1.00114.11	6
ATOM	679	C	ALA	A	93	11.551	49.407	33.747	1.00162.76	6
ATOM	680	O	ALA	A	93	11.126	48.620	32.900	1.00162.55	8
ATOM	681	N	TRP	A	94	12.270	50.493	33.442	1.00 96.59	7
ATOM	682	CA	TRP	A	94	12.607	50.826	32.055	1.00 95.32	6
ATOM	683	CB	TRP	A	94	11.431	50.488	31.137	1.00107.02	6
ATOM	684	CG	TRP	A	94	10.337	51.499	31.193	1.00108.85	6
ATOM	685	CD2	TRP	A	94	9.655	52.086	30.083	1.00110.00	6
ATOM	686	CE2	TRP	A	94	8.717	52.997	30.607	1.00111.39	6
ATOM	687	CE3	TRP	A	94	9.745	51.932	28.695	1.00110.71	6
ATOM	688	CD1	TRP	A	94	9.800	52.057	32.312	1.00110.15	6
ATOM	689	NE1	TRP	A	94	8.829	52.959	31.971	1.00111.87	7
ATOM	690	CZ2	TRP	A	94	7.871	53.756	29.792	1.00112.08	6
ATOM	691	CZ3	TRP	A	94	8.902	52.687	27.885	1.00112.05	6
ATOM	692	CH2	TRP	A	94	7.979	53.587	28.438	1.00112.66	6
ATOM	693	C	TRP	A	94	13.012	52.272	31.763	1.00 92.85	6
ATOM	694	O	TRP	A	94	12.934	53.149	32.623	1.00 92.99	8
ATOM	695	N	ARG	A	95	13.433	52.482	30.514	1.00 77.36	7
ATOM	696	CA	ARG	A	95	13.819	53.780	29.951	1.00 73.49	6
ATOM	697	CB	ARG	A	95	15.327	53.988	30.002	1.00 89.27	6
ATOM	698	CG	ARG	A	95	16.061	53.578	28.730	1.00 91.22	6
ATOM	699	CD	ARG	A	95	16.014	52.068	28.466	1.00 92.63	6
ATOM	700	NE	ARG	A	95	16.719	51.720	27.231	1.00 94.64	7
ATOM	701	CZ	ARG	A	95	16.777	50.500	26.706	1.00 96.74	6
ATOM	702	NH1	ARG	A	95	16.164	49.483	27.305	1.00 97.64	7
ATOM	703	NH2	ARG	A	95	17.452	50.299	25.579	1.00 98.03	7
ATOM	704	C	ARG	A	95	13.379	53.654	28.493	1.00 69.86	6
ATOM	705	O	ARG	A	95	13.380	52.562	27.946	1.00 70.69	8
ATOM	706	N	THR	A	96	13.012	54.745	27.846</		

ATOM	720	N	LEU	A	98	11.589	58.704	22.856	1.00	38.90	7
ATOM	721	CA	LEU	A	98	10.628	59.478	22.079	1.00	36.55	6
ATOM	722	CB	LEU	A	98	10.416	60.843	22.750	1.00	32.16	6
ATOM	723	CG	LEU	A	98	9.636	60.817	24.077	1.00	31.78	6
ATOM	724	CD1	LEU	A	98	8.132	60.750	23.797	1.00	31.19	6
ATOM	725	CD2	LEU	A	98	10.073	59.627	24.931	1.00	30.42	6
ATOM	726	C	LEU	A	98	11.131	59.647	20.638	1.00	35.43	6
ATOM	727	O	LEU	A	98	12.309	59.422	20.348	1.00	37.05	8
ATOM	728	N	ILE	A	99	10.220	60.023	19.746	1.00	13.87	7
ATOM	729	CA	ILE	A	99	10.493	60.208	18.322	1.00	13.87	6
ATOM	730	CB	ILE	A	99	9.951	59.037	17.487	1.00	28.58	6
ATOM	731	CG2	ILE	A	99	10.336	59.220	16.058	1.00	28.83	6
ATOM	732	CG1	ILE	A	99	10.455	57.698	18.045	1.00	29.22	6
ATOM	733	CD1	ILE	A	99	11.967	57.497	18.012	1.00	29.54	6
ATOM	734	C	ILE	A	99	9.749	61.451	17.892	1.00	13.87	6
ATOM	735	O	ILE	A	99	8.802	61.856	18.546	1.00	13.87	8
ATOM	736	N	LEU	A	100	10.149	62.063	16.793	1.00	15.12	7
ATOM	737	CA	LEU	A	100	9.451	63.261	16.368	1.00	18.83	6
ATOM	738	CB	LEU	A	100	9.689	64.400	17.362	1.00	24.33	6
ATOM	739	CG	LEU	A	100	9.854	65.811	16.787	1.00	24.43	6
ATOM	740	CD1	LEU	A	100	8.642	66.171	16.002	1.00	26.73	6
ATOM	741	CD2	LEU	A	100	10.055	66.820	17.892	1.00	23.82	6
ATOM	742	C	LEU	A	100	9.858	63.709	14.994	1.00	19.65	6
ATOM	743	O	LEU	A	100	11.032	63.946	14.734	1.00	19.44	8
ATOM	744	N	ARG	A	101	8.858	63.847	14.133	1.00	55.57	7
ATOM	745	CA	ARG	A	101	9.036	64.286	12.757	1.00	58.59	6
ATOM	746	CB	ARG	A	101	8.513	63.191	11.815	1.00	132.06	6
ATOM	747	CG	ARG	A	101	9.239	63.046	10.478	1.00	135.60	6
ATOM	748	CD	ARG	A	101	8.651	61.883	9.672	1.00	137.39	6
ATOM	749	NE	ARG	A	101	9.392	61.598	8.443	1.00	139.28	7
ATOM	750	CZ	ARG	A	101	9.039	60.669	7.556	1.00	140.18	6
ATOM	751	NH1	ARG	A	101	7.953	59.931	7.756	1.00	139.80	7
ATOM	752	NH2	ARG	A	101	9.777	60.467	6.472	1.00	140.56	7
ATOM	753	C	ARG	A	101	8.192	65.564	12.623	1.00	58.89	6
ATOM	754	O	ARG	A	101	7.064	65.626	13.129	1.00	59.23	8
ATOM	755	N	ALA	A	102	8.720	66.587	11.961	1.00	35.89	7
ATOM	756	CA	ALA	A	102	7.947	67.821	11.811	1.00	38.61	6
ATOM	757	CB	ALA	A	102	8.293	68.793	12.932	1.00	67.58	6
ATOM	758	C	ALA	A	102	8.137	68.493	10.451	1.00	38.78	6
ATOM	759	O	ALA	A	102	9.262	68.718	10.003	1.00	38.84	8
ATOM	760	N	GLU	A	103	7.030	68.835	9.806	1.00	34.50	7
ATOM	761	CA	GLU	A	103	7.088	69.445	8.488	1.00	36.32	6
ATOM	762	CB	GLU	A	103	5.869	69.029	7.673	1.00	66.19	6
ATOM	763	CG	GLU	A	103	5.987	67.636	7.113	1.00	66.55	6
ATOM	764	CD	GLU	A	103	7.340	67.422	6.499	1.00	65.97	6
ATOM	765	OE1	GLU	A	103	7.770	68.300	5.719	1.00	64.19	8
ATOM	766	OE2	GLU	A	103	7.973	66.387	6.802	1.00	66.71	8
ATOM	767	C	GLU	A	103	7.221	70.952	8.435	1.00	38.51	6
ATOM	768	O	GLU	A	103	7.263	71.638	9.456	1.00	38.40	8
ATOM	769	N	GLY	A	104	7.280	71.444	7.202	1.00	82.92	7
ATOM	770	CA	GLY	A	104	7.412	72.859	6.906	1.00	86.20	6
ATOM	771	C	GLY	A	104	7.259	73.885	8.006	1.00	87.20	6
ATOM	772	O	GLY	A	104	8.069	73.938	8.927	1.00	87.75	8
ATOM	773	N	PRO	A	105	6.220	74.729	7.925	1.00	121.54	7
ATOM	774	CD	PRO	A	105	5.240	74.798	6.823	1.00	82.59	6
ATOM	775	CA	PRO	A	105	5.956	75.775	8.911	1.00	122.33	6

ATOM	776	CB	PRO	A	105	5.165	76.789	8.101	1.00	82.71	6
ATOM	777	CG	PRO	A	105	4.280	75.890	7.292	1.00	82.69	6
ATOM	778	C	PRO	A	105	5.187	75.310	10.143	1.00	121.71	6
ATOM	779	O	PRO	A	105	4.319	74.442	10.050	1.00	121.21	8
ATOM	780	N	LYS	A	106	5.525	75.908	11.284	1.00	81.15	7
ATOM	781	CA	LYS	A	106	4.887	75.646	12.572	1.00	81.76	6
ATOM	782	CB	LYS	A	106	4.137	74.322	12.567	1.00	80.86	6
ATOM	783	CG	LYS	A	106	5.010	73.105	12.524	1.00	80.61	6
ATOM	784	CD	LYS	A	106	4.113	71.913	12.641	1.00	82.64	6
ATOM	785	CE	LYS	A	106	4.884	70.632	12.761	1.00	84.29	6
ATOM	786	NZ	LYS	A	106	3.925	69.490	12.835	1.00	86.22	7
ATOM	787	C	LYS	A	106	5.885	75.632	13.711	1.00	81.50	6
ATOM	788	O	LYS	A	106	7.014	76.092	13.565	1.00	81.66	8
ATOM	789	N	GLU	A	107	5.447	75.108	14.849	1.00	61.87	7
ATOM	790	CA	GLU	A	107	6.283	75.001	16.035	1.00	62.76	6
ATOM	791	CB	GLU	A	107	5.757	75.913	17.136	1.00	63.05	6
ATOM	792	CG	GLU	A	107	5.992	77.370	16.866	1.00	62.98	6
ATOM	793	CD	GLU	A	107	5.557	78.241	18.015	1.00	63.40	6
ATOM	794	OE1	GLU	A	107	5.837	77.874	19.181	1.00	62.44	8
ATOM	795	OE2	GLU	A	107	4.941	79.295	17.743	1.00	64.68	8
ATOM	796	C	GLU	A	107	6.275	73.563	16.524	1.00	62.81	6
ATOM	797	O	GLU	A	107	5.216	72.949	16.628	1.00	64.05	8
ATOM	798	N	VAL	A	108	7.445	73.015	16.828	1.00	92.35	7
ATOM	799	CA	VAL	A	108	7.489	71.641	17.298	1.00	90.77	6
ATOM	800	CB	VAL	A	108	8.786	70.926	16.886	1.00	24.79	6
ATOM	801	CG1	VAL	A	108	8.524	69.456	16.759	1.00	22.72	6
ATOM	802	CG2	VAL	A	108	9.305	71.473	15.599	1.00	23.64	6
ATOM	803	C	VAL	A	108	7.373	71.569	18.813	1.00	90.99	6
ATOM	804	O	VAL	A	108	8.067	70.785	19.448	1.00	91.87	8
ATOM	805	N	ARG	A	109	6.504	72.389	19.394	1.00	16.19	7
ATOM	806	CA	ARG	A	109	6.318	72.367	20.836	1.00	17.08	6
ATOM	807	CB	ARG	A	109	5.075	73.192	21.230	1.00	79.46	6
ATOM	808	CG	ARG	A	109	3.702	72.618	20.870	1.00	82.11	6
ATOM	809	CD	ARG	A	109	3.528	72.443	19.373	1.00	82.88	6
ATOM	810	NE	ARG	A	109	2.130	72.272	18.982	1.00	82.78	7
ATOM	811	CZ	ARG	A	109	1.738	71.912	17.762	1.00	83.25	6
ATOM	812	NH1	ARG	A	109	2.636	71.675	16.816	1.00	82.30	7
ATOM	813	NH2	ARG	A	109	0.448	71.812	17.477	1.00	83.70	7
ATOM	814	C	ARG	A	109	6.211	70.916	21.329	1.00	16.63	6
ATOM	815	O	ARG	A	109	5.687	70.052	20.636	1.00	16.88	8
ATOM	816	N	ALA	A	110	6.733	70.653	22.520	1.00	43.26	7
ATOM	817	CA	ALA	A	110	6.740	69.314	23.119	1.00	44.15	6
ATOM	818	CB	ALA	A	110	6.592	69.434	24.630	1.00	62.64	6
ATOM	819	C	ALA	A	110	5.731	68.300	22.582	1.00	44.52	6
ATOM	820	O	ALA	A	110	6.111	67.264	22.031	1.00	43.73	8
ATOM	821	N	VAL	A	111	4.450	68.589	22.757	1.00	59.09	7
ATOM	822	CA	VAL	A	111	3.391	67.687	22.302	1.00	60.52	6
ATOM	823	CB	VAL	A	111	2.128	68.466	21.894	1.00	208.87	6
ATOM	824	CG1	VAL	A	111	1.013	67.493	21.525	1.00	208.87	6
ATOM	825	CG2	VAL	A	111	1.698	69.385	23.021	1.00	208.87	6
ATOM	826	C	VAL	A	111	3.792	66.821	21.119	1.00	58.77	6
ATOM	827	O	VAL	A	111	3.854	65.596	21.229	1.00	58.31	8
ATOM	828	N	ASP	A	112	4.046	67.490	19.996	1.00	43.13	7
ATOM	829	CA	ASP	A	112	4.447	66.875	18.733	1.00	43.00	6
ATOM	830	CB	ASP	A	112	5.244	67.892	17.922	1.00	56.89	6
ATOM	831	CG	ASP	A	112	4.385	69.026	17.420	1.00	56.48	6

ATOM	832	OD1	ASP	A	112	3.586	68.794	16.497	1.00	55.87	8
ATOM	833	OD2	ASP	A	112	4.496	70.145	17.948	1.00	56.33	8
ATOM	834	C	ASP	A	112	5.225	65.556	18.789	1.00	42.03	6
ATOM	835	O	ASP	A	112	5.499	64.949	17.753	1.00	41.37	8
ATOM	836	N	PHE	A	113	5.596	65.113	19.983	1.00	66.40	7
ATOM	837	CA	PHE	A	113	6.326	63.861	20.106	1.00	67.18	6
ATOM	838	CB	PHE	A	113	6.863	63.705	21.527	1.00	48.77	6
ATOM	839	CG	PHE	A	113	8.243	64.271	21.710	1.00	45.55	6
ATOM	840	CD1	PHE	A	113	8.769	65.166	20.786	1.00	43.11	6
ATOM	841	CD2	PHE	A	113	9.018	63.901	22.798	1.00	44.09	6
ATOM	842	CE1	PHE	A	113	10.036	65.672	20.940	1.00	42.90	6
ATOM	843	CE2	PHE	A	113	10.285	64.405	22.959	1.00	43.06	6
ATOM	844	CZ	PHE	A	113	10.797	65.294	22.027	1.00	43.40	6
ATOM	845	C	PHE	A	113	5.447	62.681	19.734	1.00	67.93	6
ATOM	846	O	PHE	A	113	4.225	62.817	19.655	1.00	68.13	8
ATOM	847	N	THR	A	114	6.077	61.532	19.500	1.00	87.75	7
ATOM	848	CA	THR	A	114	5.366	60.317	19.122	1.00	87.95	6
ATOM	849	CB	THR	A	114	6.351	59.177	18.778	1.00	77.17	6
ATOM	850	OG1	THR	A	114	5.628	58.046	18.287	1.00	75.93	8
ATOM	851	CG2	THR	A	114	7.132	58.753	20.007	1.00	78.13	6
ATOM	852	C	THR	A	114	4.433	59.833	20.226	1.00	88.39	6
ATOM	853	O	THR	A	114	4.879	59.372	21.278	1.00	88.57	8
ATOM	854	N	PRO	A	115	3.115	59.943	20.005	1.00	98.73	7
ATOM	855	CD	PRO	A	115	2.382	60.327	18.785	1.00	90.85	6
ATOM	856	CA	PRO	A	115	2.203	59.480	21.053	1.00	99.15	6
ATOM	857	CB	PRO	A	115	0.824	59.750	20.445	1.00	90.46	6
ATOM	858	CG	PRO	A	115	1.071	59.620	18.964	1.00	91.10	6
ATOM	859	C	PRO	A	115	2.491	58.003	21.267	1.00	98.39	6
ATOM	860	O	PRO	A	115	2.155	57.190	20.415	1.00	98.70	8
ATOM	861	N	SER	A	116	3.117	57.640	22.383	1.00	43.20	7
ATOM	862	CA	SER	A	116	3.438	56.228	22.566	1.00	43.88	6
ATOM	863	CB	SER	A	116	4.600	55.863	21.632	1.00	127.33	6
ATOM	864	OG	SER	A	116	5.700	56.740	21.807	1.00	127.37	8
ATOM	865	C	SER	A	116	3.724	55.633	23.955	1.00	44.19	6
ATOM	866	O	SER	A	116	4.506	56.168	24.747	1.00	43.78	8
ATOM	867	N	ALA	A	117	3.087	54.490	24.210	1.00	137.91	7
ATOM	868	CA	ALA	A	117	3.233	53.735	25.450	1.00	139.42	6
ATOM	869	CB	ALA	A	117	4.570	53.008	25.448	1.00	13.87	6
ATOM	870	C	ALA	A	117	3.081	54.534	26.740	1.00	139.97	6
ATOM	871	O	ALA	A	117	2.550	55.642	26.745	1.00	139.94	8
ATOM	872	N	ASP	A	118	3.551	53.941	27.834	1.00	85.71	7

ATOM	888	CA	GLU	A	120	3.087	61.290	29.402	1.00	57.67	6
ATOM	889	CB	GLU	A	120	2.308	61.423	30.708	1.00	57.66	6
ATOM	890	CG	GLU	A	120	1.164	60.461	30.889	1.00	55.40	6
ATOM	891	CD	GLU	A	120	0.288	60.853	32.059	1.00	52.98	6
ATOM	892	OE1	GLU	A	120	-0.443	61.863	31.938	1.00	52.12	8
ATOM	893	OE2	GLU	A	120	0.333	60.160	33.096	1.00	50.64	8
ATOM	894	C	GLU	A	120	3.947	62.538	29.255	1.00	56.66	6
ATOM	895	O	GLU	A	120	4.692	62.886	30.169	1.00	57.46	8
ATOM	896	N	ILE	A	121	3.850	63.209	28.111	1.00	43.45	7
ATOM	897	CA	ILE	A	121	4.604	64.440	27.898	1.00	42.84	6
ATOM	898	CB	ILE	A	121	4.522	64.902	26.425	1.00	53.47	6
ATOM	899	CG2	ILE	A	121	5.189	66.249	26.242	1.00	53.52	6
ATOM	900	CG1	ILE	A	121	5.215	63.875	25.537	1.00	53.84	6
ATOM	901	CD1	ILE	A	121	6.623	63.569	25.968	1.00	54.20	6
ATOM	902	C	ILE	A	121	3.967	65.470	28.830	1.00	41.89	6
ATOM	903	O	ILE	A	121	3.431	66.515	28.406	1.00	41.93	8
ATOM	904	N	MET	A	122	4.020	65.113	30.112	1.00	48.93	7
ATOM	905	CA	MET	A	122	3.494	65.888	31.214	1.00	48.79	6
ATOM	906	CB	MET	A	122	4.374	65.665	32.436	1.00	96.83	6
ATOM	907	CG	MET	A	122	3.626	65.452	33.729	1.00	99.46	6
ATOM	908	SD	MET	A	122	3.284	63.721	34.020	1.00	100.08	16
ATOM	909	CE	MET	A	122	1.698	63.577	33.257	1.00	100.85	6
ATOM	910	C	MET	A	122	3.476	67.369	30.882	1.00	47.40	6
ATOM	911	O	MET	A	122	2.537	68.082	31.221	1.00	47.59	8
ATOM	912	N	ASN	A	123	4.525	67.822	30.206	1.00	100.32	7
ATOM	913	CA	ASN	A	123	4.660	69.225	29.861	1.00	99.15	6
ATOM	914	CB	ASN	A	123	5.979	69.765	30.419	1.00	60.16	6
ATOM	915	CG	ASN	A	123	7.193	68.984	29.924	1.00	58.49	6
ATOM	916	OD1	ASN	A	123	7.088	67.809	29.560	1.00	56.34	8
ATOM	917	ND2	ASN	A	123	8.357	69.629	29.941	1.00	57.81	7
ATOM	918	C	ASN	A	123	4.586	69.556	28.387	1.00	98.67	6
ATOM	919	O	ASN	A	123	5.610	69.847	27.769	1.00	99.56	8
ATOM	920	N	PRO	A	124	3.379	69.523	27.798	1.00	44.27	7
ATOM	921	CD	PRO	A	124	2.068	69.317	28.425	1.00	98.26	6
ATOM	922	CA	PRO	A	124	3.228	69.845	26.375	1.00	43.49	6
ATOM	923	CB	PRO	A	124	1.720	69.776	26.166	1.00	98.08	6
ATOM	924	CG	PRO	A	124	1.177	70.114	27.514	1.00	99.23	6
ATOM	925	C	PRO	A	124	3.809	71.236	26.091	1.00	42.28	6
ATOM	926	O	PRO	A	124	4.800	71.634	26.713	1.00	41.44	8
ATOM	927	N	ASP	A	125	3.196	71.987	25.181	1.00	72.10	7
ATOM	928	CA	ASP	A	125	3.715	73.315	24.842	1.00	71.22	6
ATOM	929	CB	ASP	A	125	3.290	74.367	25.881	1.00	58.39	6
ATOM	930	CG	ASP	A	125	2.384	73.801	26.968	1.00	59.12	6
ATOM	931	OD1	ASP	A	125	1.510	72.971	26.649	1.00	58.91	8
ATOM	932	OD2	ASP	A	125	2.528	74.200	28.145	1.00	59.76	8
ATOM	933	C	ASP	A	125	5.240	73.204	24.792	1.00	69.73	6
ATOM	934	O	ASP	A	125	5.796	72.731	23.806	1.00	70.17	8
ATOM	935	N	LEU	A	126	5.913	73.620	25.858	1.00	29.24	7
ATOM	936	CA	LEU	A	126	7.367	73.523	25.929	1.00	29.23	6
ATOM	937	CB	LEU	A	126	7.729	72.167	26.552	1.00	23.23	6
ATOM	938	CG	LEU	A	126	9.163	71.658	26.398	1.00	22.23	6
ATOM	939	CD1	LEU	A	126	10.174	72.770	26.649	1.00	22.69	6
ATOM	940	CD2	LEU	A	126	9.382	70.502	27.347	1.00	20.55	6
ATOM	941	C	LEU	A	126	8.036	73.707	24.557	1.00	29.26	6
ATOM	942	O	LEU	A	126	8.539	72.755	23.963	1.00	29.35	8
ATOM	943	N	HIS	A	127	8.045	74.942	24.062	1.00	67.12	7

ATOM	944	CA	HIS	A	127	8.619	75.246	22.747	1.00	68.12	6
ATOM	945	CB	HIS	A	127	8.936	76.739	22.638	1.00	79.55	6
ATOM	946	CG	HIS	A	127	9.494	77.146	21.306	1.00	81.29	6
ATOM	947	CD2	HIS	A	127	10.036	76.418	20.299	1.00	81.61	6
ATOM	948	ND1	HIS	A	127	9.542	78.461	20.895	1.00	82.58	7
ATOM	949	CE1	HIS	A	127	10.091	78.526	19.696	1.00	82.91	6
ATOM	950	NE2	HIS	A	127	10.399	77.301	19.311	1.00	82.76	7
ATOM	951	C	HIS	A	127	9.862	74.450	22.375	1.00	67.26	6
ATOM	952	O	HIS	A	127	10.961	74.800	22.780	1.00	67.73	8
ATOM	953	N	ILE	A	128	9.698	73.415	21.561	1.00	26.95	7
ATOM	954	CA	ILE	A	128	10.830	72.595	21.176	1.00	26.01	6
ATOM	955	CB	ILE	A	128	10.383	71.144	21.000	1.00	19.30	6
ATOM	956	CG2	ILE	A	128	11.557	70.246	20.617	1.00	18.95	6
ATOM	957	CG1	ILE	A	128	9.788	70.660	22.303	1.00	18.10	6
ATOM	958	CD1	ILE	A	128	10.741	70.757	23.436	1.00	18.67	6
ATOM	959	C	ILE	A	128	11.618	73.032	19.937	1.00	26.70	6
ATOM	960	O	ILE	A	128	12.840	72.839	19.889	1.00	26.62	8
ATOM	961	N	ALA	A	129	10.947	73.614	18.939	1.00	61.74	7
ATOM	962	CA	ALA	A	129	11.644	74.037	17.712	1.00	63.00	6
ATOM	963	CB	ALA	A	129	12.309	72.821	17.053	1.00	29.93	6
ATOM	964	C	ALA	A	129	10.795	74.780	16.673	1.00	62.52	6
ATOM	965	O	ALA	A	129	10.032	74.176	15.920	1.00	62.23	8
ATOM	966	N	THR	A	130	10.957	76.095	16.626	1.00	42.47	7
ATOM	967	CA	THR	A	130	10.222	76.922	15.685	1.00	44.16	6
ATOM	968	CB	THR	A	130	10.261	78.415	16.114	1.00	37.02	6
ATOM	969	OG1	THR	A	130	9.345	78.624	17.193	1.00	36.43	8
ATOM	970	CG2	THR	A	130	9.874	79.329	14.972	1.00	38.61	6
ATOM	971	C	THR	A	130	10.781	76.773	14.271	1.00	44.81	6
ATOM	972	O	THR	A	130	11.369	77.711	13.718	1.00	45.51	8
ATOM	973	N	LEU	A	131	10.597	75.590	13.684	1.00	69.43	7
ATOM	974	CA	LEU	A	131	11.078	75.343	12.324	1.00	70.26	6
ATOM	975	CB	LEU	A	131	11.388	73.844	12.126	1.00	23.62	6
ATOM	976	CG	LEU	A	131	10.496	72.762	12.723	1.00	20.66	6
ATOM	977	CD1	LEU	A	131	9.163	72.821	12.018	1.00	20.91	6
ATOM	978	CD2	LEU	A	131	11.130	71.373	12.573	1.00	18.41	6
ATOM	979	C	LEU	A	131	10.085	75.865	11.275	1.00	71.29	6
ATOM	980	O	LEU	A	131	8.915	76.101	11.587	1.00	71.02	8
ATOM	981	N	GLU	A	132	10.552	76.073	10.045	1.00	34.39	7
ATOM	982	CA	GLU	A	132	9.665	76.587	9.009	1.00	37.30	6
ATOM	983	CB	GLU	A	132	9.125	77.960	9.414	1.00	144.24	6
ATOM	984	CG	GLU	A	132	10.175	79.051				



ATOM	1000	CA	GLY	A	134	11.824	73.610	5.486	1.00	49.15	6
ATOM	1001	C	GLY	A	134	11.557	72.535	6.528	1.00	48.48	6
ATOM	1002	O	GLY	A	134	12.406	72.236	7.367	1.00	47.28	8
ATOM	1003	N	GLY	A	135	10.362	71.956	6.484	1.00	100.77	7
ATOM	1004	CA	GLY	A	135	10.015	70.916	7.433	1.00	100.88	6
ATOM	1005	C	GLY	A	135	11.060	69.829	7.445	1.00	100.39	6
ATOM	1006	O	GLY	A	135	11.122	68.995	6.541	1.00	101.39	8
ATOM	1007	N	LYS	A	136	11.889	69.832	8.477	1.00	53.75	7
ATOM	1008	CA	LYS	A	136	12.947	68.844	8.579	1.00	52.81	6
ATOM	1009	CB	LYS	A	136	14.117	69.281	7.689	1.00	74.23	6
ATOM	1010	CG	LYS	A	136	15.236	68.259	7.540	1.00	75.69	6
ATOM	1011	CD	LYS	A	136	14.739	66.966	6.914	1.00	75.71	6
ATOM	1012	CE	LYS	A	136	15.869	65.960	6.800	1.00	76.06	6
ATOM	1013	NZ	LYS	A	136	15.425	64.618	6.316	1.00	77.03	7
ATOM	1014	C	LYS	A	136	13.406	68.730	10.028	1.00	50.77	6
ATOM	1015	O	LYS	A	136	14.026	69.653	10.542	1.00	50.85	8
ATOM	1016	N	LEU	A	137	13.116	67.611	10.691	1.00	63.98	7
ATOM	1017	CA	LEU	A	137	13.541	67.485	12.074	1.00	62.44	6
ATOM	1018	CB	LEU	A	137	12.599	68.281	12.968	1.00	36.13	6
ATOM	1019	CG	LEU	A	137	13.185	68.463	14.370	1.00	34.38	6
ATOM	1020	CD1	LEU	A	137	14.506	69.223	14.245	1.00	34.17	6
ATOM	1021	CD2	LEU	A	137	12.211	69.201	15.277	1.00	33.90	6
ATOM	1022	C	LEU	A	137	13.742	66.105	12.703	1.00	61.48	6
ATOM	1023	O	LEU	A	137	14.491	65.990	13.667	1.00	62.25	8
ATOM	1024	N	TYR	A	138	13.111	65.063	12.169	1.00	28.02	7
ATOM	1025	CA	TYR	A	138	13.216	63.715	12.760	1.00	26.33	6
ATOM	1026	CB	TYR	A	138	13.480	62.626	11.710	1.00	33.29	6
ATOM	1027	CG	TYR	A	138	13.352	61.254	12.349	1.00	30.22	6
ATOM	1028	CD1	TYR	A	138	12.109	60.764	12.741	1.00	27.96	6
ATOM	1029	CE1	TYR	A	138	11.996	59.605	13.494	1.00	25.43	6
ATOM	1030	CD2	TYR	A	138	14.477	60.528	12.716	1.00	28.72	6
ATOM	1031	CE2	TYR	A	138	14.369	59.360	13.476	1.00	26.35	6
ATOM	1032	CZ	TYR	A	138	13.128	58.911	13.868	1.00	24.91	6
ATOM	1033	OH	TYR	A	138	13.038	57.813	14.691	1.00	22.73	8
ATOM	1034	C	TYR	A	138	14.234	63.532	13.878	1.00	25.01	6
ATOM	1035	O	TYR	A	138	15.438	63.496	13.622	1.00	23.65	8
ATOM	1036	N	MET	A	139	13.734	63.385	15.106	1.00	33.00	7
ATOM	1037	CA	MET	A	139	14.595	63.210	16.272	1.00	35.08	6
ATOM	1038	CB	MET	A	139	14.544	64.450	17.174	1.00	79.45	6
ATOM	1039	CG	MET	A	139	14.819	65.770	16.493	1.00	83.48	6
ATOM	1040	SD	MET	A	139	14.970	67.100	17.691	1.00	86.79	16
ATOM	1041	CE	MET	A	139	13.312	67.231	18.277	1.00	86.81	6
ATOM	1042	C	MET	A	139	14.271	62.000	17.150	1.00	34.13	6
ATOM	1043	O	MET	A	139	13.125	61.795	17.525	1.00	34.95	8
ATOM	1044	N	GLU	A	140	15.286	61.206	17.476	1.00	57.41	7
ATOM	1045	CA	GLU	A	140	15.118	60.063	18.367	1.00	56.32	6
ATOM	1046	CB	GLU	A	140	15.884	58.852	17.847	1.00	58.63	6
ATOM	1047	CG	GLU	A	140	15.386	58.247	16.555	1.00	58.67	6
ATOM	1048	CD	GLU	A	140	16.270	57.087	16.109	1.00	58.99	6
ATOM	1049	OE1	GLU	A	140	16.632	56.255	16.972	1.00	58.20	8
ATOM	1050	OE2	GLU	A	140	16.601	56.996	14.907	1.00	58.51	8
ATOM	1051	C	GLU	A	140	15.786	60.576	19.646	1.00	55.08	6
ATOM	1052	O	GLU	A	140	16.996	60.810	19.649	1.00	55.57	8
ATOM	1053	N	VAL	A	141	15.024	60.752	20.725	1.00	13.87	7
ATOM	1054	CA	VAL	A	141	15.589	61.296	21.968	1.00	13.87	6
ATOM	1055	CB	VAL	A	141	15.108	62.767	22.184	1.00	30.35	6

ATOM	1056	CG1	VAL	A	141	13.773	63.001	21.501	1.00	30.27	6
ATOM	1057	CG2	VAL	A	141	14.992	63.081	23.658	1.00	30.89	6
ATOM	1058	C	VAL	A	141	15.340	60.502	23.232	1.00	13.87	6
ATOM	1059	O	VAL	A	141	14.292	60.615	23.837	1.00	13.87	8
ATOM	1060	N	ARG	A	142	16.332	59.728	23.644	1.00	15.97	7
ATOM	1061	CA	ARG	A	142	16.230	58.885	24.832	1.00	17.66	6
ATOM	1062	CB	ARG	A	142	17.620	58.497	25.319	1.00	36.74	6
ATOM	1063	CG	ARG	A	142	17.799	57.015	25.461	1.00	35.26	6
ATOM	1064	CD	ARG	A	142	18.739	56.701	26.556	1.00	33.63	6
ATOM	1065	NE	ARG	A	142	18.991	55.274	26.633	1.00	33.56	7
ATOM	1066	CZ	ARG	A	142	19.798	54.715	27.530	1.00	35.05	6
ATOM	1067	NH1	ARG	A	142	20.415	55.482	28.419	1.00	36.63	7
ATOM	1068	NH2	ARG	A	142	20.006	53.398	27.540	1.00	35.26	7
ATOM	1069	C	ARG	A	142	15.469	59.522	25.983	1.00	18.25	6
ATOM	1070	O	ARG	A	142	15.072	60.668	25.876	1.00	17.69	8
ATOM	1071	N	VAL	A	143	15.262	58.765	27.069	1.00	52.69	7
ATOM	1072	CA	VAL	A	143	14.570	59.241	28.285	1.00	55.71	6
ATOM	1073	CB	VAL	A	143	13.054	59.520	28.052	1.00	156.86	6
ATOM	1074	CG1	VAL	A	143	12.845	60.943	27.562	1.00	158.32	6
ATOM	1075	CG2	VAL	A	143	12.485	58.534	27.060	1.00	159.44	6
ATOM	1076	C	VAL	A	143	14.678	58.266	29.463	1.00	55.82	6
ATOM	1077	O	VAL	A	143	13.678	57.742	29.938	1.00	56.81	8
ATOM	1078	N	ASP	A	144	15.903	58.048	29.933	1.00	35.56	7
ATOM	1079	CA	ASP	A	144	16.206	57.144	31.048	1.00	36.24	6
ATOM	1080	CB	ASP	A	144	17.717	56.993	31.235	1.00	43.33	6
ATOM	1081	CG	ASP	A	144	18.337	56.016	30.264	1.00	44.54	6
ATOM	1082	OD1	ASP	A	144	17.875	55.965	29.096	1.00	44.64	8
ATOM	1083	OD2	ASP	A	144	19.298	55.312	30.672	1.00	44.72	8
ATOM	1084	C	ASP	A	144	15.647	57.566	32.378	1.00	35.85	6
ATOM	1085	O	ASP	A	144	15.210	58.701	32.568	1.00	35.46	8
ATOM	1086	N	ARG	A	145	15.705	56.626	33.310	1.00	58.26	7
ATOM	1087	CA	ARG	A	145	15.223	56.844	34.659	1.00	61.18	6
ATOM	1088	CB	ARG	A	145	14.411	55.625	35.120	1.00	90.29	6
ATOM	1089	CG	ARG	A	145	13.329	55.909	36.166	1.00	92.68	6
ATOM	1090	CD	ARG	A	145	12.117	54.997	35.952	1.00	93.22	6
ATOM	1091	NE	ARG	A	145	10.965	55.394	36.759	1.00	95.42	7
ATOM	1092	CZ	ARG	A	145	9.702	55.118	36.438	1.00	96.41	6
ATOM	1093	NH1	ARG	A	145	9.433	54.447	35.325	1.00	95.91	7
ATOM	1094	NH2	ARG	A	145	8.704	55.509	37.225	1.00	97.11	7
ATOM	1095	C	ARG	A	145	16.487	56.995	35.484	1.00	61.07	6
ATOM	1096										

ATOM	1112	N	TYR	A	149	21.633	64.443	39.931	1.00	56.71	7
ATOM	1113	CA	TYR	A	149	22.211	65.167	38.798	1.00	56.25	6
ATOM	1114	CB	TYR	A	149	22.611	66.564	39.267	1.00	33.62	6
ATOM	1115	CG	TYR	A	149	23.243	67.432	38.220	1.00	29.72	6
ATOM	1116	CD1	TYR	A	149	22.743	67.479	36.925	1.00	27.89	6
ATOM	1117	CE1	TYR	A	149	23.279	68.353	35.971	1.00	25.22	6
ATOM	1118	CD2	TYR	A	149	24.300	68.274	38.542	1.00	28.71	6
ATOM	1119	CE2	TYR	A	149	24.842	69.153	37.600	1.00	26.48	6
ATOM	1120	CZ	TYR	A	149	24.323	69.188	36.318	1.00	24.38	6
ATOM	1121	OH	TYR	A	149	24.840	70.082	35.409	1.00	20.70	8
ATOM	1122	C	TYR	A	149	23.429	64.449	38.216	1.00	57.82	6
ATOM	1123	O	TYR	A	149	24.454	64.334	38.884	1.00	58.18	8
ATOM	1124	N	VAL	A	150	23.318	63.971	36.976	1.00	25.17	7
ATOM	1125	CA	VAL	A	150	24.426	63.258	36.318	1.00	27.90	6
ATOM	1126	CB	VAL	A	150	24.146	61.733	36.207	1.00	43.10	6
ATOM	1127	CG1	VAL	A	150	25.343	61.022	35.593	1.00	43.85	6
ATOM	1128	CG2	VAL	A	150	23.836	61.150	37.578	1.00	43.89	6
ATOM	1129	C	VAL	A	150	24.683	63.794	34.915	1.00	30.48	6
ATOM	1130	O	VAL	A	150	23.971	63.450	33.986	1.00	31.06	8
ATOM	1131	N	PRO	A	151	25.715	64.642	34.754	1.00	54.43	7
ATOM	1132	CD	PRO	A	151	26.346	65.312	35.904	1.00	128.16	6
ATOM	1133	CA	PRO	A	151	26.146	65.283	33.507	1.00	57.01	6
ATOM	1134	CB	PRO	A	151	27.167	66.306	33.991	1.00	129.50	6
ATOM	1135	CG	PRO	A	151	26.658	66.665	35.336	1.00	129.68	6
ATOM	1136	C	PRO	A	151	26.716	64.407	32.387	1.00	59.77	6
ATOM	1137	O	PRO	A	151	26.354	63.243	32.226	1.00	60.40	8
ATOM	1138	N	ALA	A	152	27.615	65.001	31.611	1.00	72.84	7
ATOM	1139	CA	ALA	A	152	28.259	64.345	30.478	1.00	76.09	6
ATOM	1140	CB	ALA	A	152	29.206	65.329	29.774	1.00	20.79	6
ATOM	1141	C	ALA	A	152	29.007	63.063	30.811	1.00	78.69	6
ATOM	1142	O	ALA	A	152	29.763	62.562	29.983	1.00	79.51	8
ATOM	1143	N	GLU	A	153	28.823	62.534	32.013	1.00	107.48	7
ATOM	1144	CA	GLU	A	153	29.483	61.283	32.357	1.00	110.39	6
ATOM	1145	CB	GLU	A	153	29.558	61.104	33.869	1.00	169.79	6
ATOM	1146	CG	GLU	A	153	29.938	59.697	34.286	1.00	173.04	6
ATOM	1147	CD	GLU	A	153	30.069	59.550	35.782	1.00	175.00	6
ATOM	1148	OE1	GLU	A	153	29.155	60.001	36.506	1.00	175.25	8
ATOM	1149	OE2	GLU	A	153	31.082	58.977	36.237	1.00	176.25	8
ATOM	1150	C	GLU	A	153	28.674	60.135	31.741	1.00	110.83	6
ATOM	1151	O	GLU	A	153	29.210	59.299	31.013	1.00	110.6	

ATOM	1168	ND1	HIS	A	155	29.281	59.421	25.361	1.00179.47	7
ATOM	1169	CE1	HIS	A	155	29.416	59.420	24.047	1.00179.70	6
ATOM	1170	NE2	HIS	A	155	28.990	58.258	23.586	1.00179.98	7
ATOM	1171	C	HIS	A	155	26.034	58.559	27.148	1.00 73.51	6
ATOM	1172	O	HIS	A	155	25.253	57.708	27.594	1.00 72.88	8
ATOM	1173	N	GLY	A	156	25.775	59.297	26.073	1.00 63.99	7
ATOM	1174	CA	GLY	A	156	24.516	59.171	25.361	1.00 62.57	6
ATOM	1175	C	GLY	A	156	24.550	58.229	24.184	1.00 61.40	6
ATOM	1176	O	GLY	A	156	23.700	58.300	23.302	1.00 60.43	8
ATOM	1177	N	ILE	A	157	25.542	57.349	24.182	1.00 73.01	7
ATOM	1178	CA	ILE	A	157	25.707	56.357	23.135	1.00 72.98	6
ATOM	1179	CB	ILE	A	157	26.239	55.025	23.747	1.00101.08	6
ATOM	1180	CG2	ILE	A	157	25.403	54.632	24.964	1.00101.52	6
ATOM	1181	CG1	ILE	A	157	26.255	53.924	22.688	1.00101.27	6
ATOM	1182	CD1	ILE	A	157	26.917	52.644	23.140	1.00102.19	6
ATOM	1183	C	ILE	A	157	24.409	56.117	22.353	1.00 72.00	6
ATOM	1184	O	ILE	A	157	24.148	56.808	21.376	1.00 71.90	8
ATOM	1185	N	LYS	A	158	23.588	55.166	22.795	1.00110.17	7
ATOM	1186	CA	LYS	A	158	22.333	54.851	22.113	1.00108.68	6
ATOM	1187	CB	LYS	A	158	21.270	55.916	22.390	1.00 97.31	6
ATOM	1188	CG	LYS	A	158	20.297	55.551	23.491	1.00 97.28	6
ATOM	1189	CD	LYS	A	158	19.567	54.257	23.177	1.00 96.09	6
ATOM	1190	CE	LYS	A	158	18.590	53.895	24.290	1.00 94.87	6
ATOM	1191	NZ	LYS	A	158	18.012	52.522	24.162	1.00 93.51	7
ATOM	1192	C	LYS	A	158	22.520	54.727	20.609	1.00107.55	6
ATOM	1193	O	LYS	A	158	22.982	53.697	20.115	1.00108.08	8
ATOM	1194	N	ASP	A	159	22.164	55.790	19.889	1.00 59.19	7
ATOM	1195	CA	ASP	A	159	22.263	55.839	18.426	1.00 57.80	6
ATOM	1196	CB	ASP	A	159	21.589	57.125	17.907	1.00 86.33	6
ATOM	1197	CG	ASP	A	159	21.011	56.968	16.505	1.00 85.93	6
ATOM	1198	OD1	ASP	A	159	21.796	56.858	15.544	1.00 86.75	8
ATOM	1199	OD2	ASP	A	159	19.768	56.950	16.363	1.00 84.74	8
ATOM	1200	C	ASP	A	159	23.723	55.786	17.983	1.00 56.46	6
ATOM	1201	O	ASP	A	159	24.054	56.164	16.866	1.00 55.59	8
ATOM	1202	N	ARG	A	160	24.582	55.311	18.881	1.00 87.56	7
ATOM	1203	CA	ARG	A	160	26.014	55.182	18.631	1.00 88.42	6
ATOM	1204	CB	ARG	A	160	26.402	53.702	18.522	1.00102.75	6
ATOM	1205	CG	ARG	A	160	26.715	53.008	19.844	1.00102.79	6
ATOM	1206	CD	ARG	A	160	27.249	51.598	19.603	1.00102.12	6
ATOM	1207	NE	ARG	A	160	27.592	50.890	20.833	1.00100.58	7
ATOM	1208	CZ	ARG	A	160	28.112	49.668	20.860	1.00100.56	6
ATOM	1209	NH1	ARG	A	160	28.347	49.025	19.		

ATOM	1224	CG	ASN	A	162	25.310	61.112	14.168	1.00	45.25	6
ATOM	1225	OD1	ASN	A	162	26.494	61.185	13.807	1.00	44.13	8
ATOM	1226	ND2	ASN	A	162	24.412	60.371	13.528	1.00	44.20	7
ATOM	1227	C	ASN	A	162	24.569	61.701	17.876	1.00	68.28	6
ATOM	1228	O	ASN	A	162	23.898	62.728	17.924	1.00	68.79	8
ATOM	1229	N	ALA	A	163	24.586	60.787	18.837	1.00	49.85	7
ATOM	1230	CA	ALA	A	163	23.784	60.911	20.039	1.00	46.49	6
ATOM	1231	CB	ALA	A	163	24.181	59.824	21.022	1.00	113.93	6
ATOM	1232	C	ALA	A	163	23.876	62.279	20.709	1.00	43.84	6
ATOM	1233	O	ALA	A	163	22.933	62.712	21.366	1.00	42.33	8
ATOM	1234	N	ILE	A	164	25.003	62.960	20.550	1.00	44.78	7
ATOM	1235	CA	ILE	A	164	25.183	64.267	21.171	1.00	41.25	6
ATOM	1236	CB	ILE	A	164	24.538	65.390	20.309	1.00	14.84	6
ATOM	1237	CG2	ILE	A	164	24.860	65.165	18.847	1.00	13.87	6
ATOM	1238	CG1	ILE	A	164	23.023	65.399	20.465	1.00	13.87	6
ATOM	1239	CD1	ILE	A	164	22.358	66.472	19.666	1.00	13.87	6
ATOM	1240	C	ILE	A	164	24.560	64.289	22.570	1.00	40.59	6
ATOM	1241	O	ILE	A	164	23.845	65.219	22.913	1.00	41.32	8
ATOM	1242	N	PRO	A	165	24.867	63.282	23.407	1.00	38.68	7
ATOM	1243	CD	PRO	A	165	26.175	62.626	23.304	1.00	32.21	6
ATOM	1244	CA	PRO	A	165	24.358	63.127	24.778	1.00	37.84	6
ATOM	1245	CB	PRO	A	165	25.469	62.357	25.478	1.00	31.90	6
ATOM	1246	CG	PRO	A	165	26.670	62.746	24.710	1.00	31.31	6
ATOM	1247	C	PRO	A	165	24.057	64.433	25.473	1.00	38.07	6
ATOM	1248	O	PRO	A	165	24.861	65.366	25.398	1.00	38.33	8
ATOM	1249	N	VAL	A	166	22.908	64.488	26.152	1.00	28.76	7
ATOM	1250	CA	VAL	A	166	22.462	65.687	26.869	1.00	28.17	6
ATOM	1251	CB	VAL	A	166	21.018	66.014	26.538	1.00	37.29	6
ATOM	1252	CG1	VAL	A	166	20.639	67.328	27.174	1.00	37.95	6
ATOM	1253	CG2	VAL	A	166	20.830	66.045	25.056	1.00	37.42	6
ATOM	1254	C	VAL	A	166	22.532	65.548	28.384	1.00	28.88	6
ATOM	1255	O	VAL	A	166	22.344	64.452	28.927	1.00	29.93	8
ATOM	1256	N	ASP	A	167	22.780	66.659	29.070	1.00	27.15	7
ATOM	1257	CA	ASP	A	167	22.847	66.627	30.525	1.00	28.82	6
ATOM	1258	CB	ASP	A	167	23.131	68.019	31.079	1.00	55.43	6
ATOM	1259	CG	ASP	A	167	24.512	68.503	30.750	1.00	56.58	6
ATOM	1260	OD1	ASP	A	167	25.452	67.682	30.781	1.00	57.79	8
ATOM	1261	OD2	ASP	A	167	24.654	69.709	30.478	1.00	55.60	8
ATOM	1262	C	ASP	A	167	21.540	66.119	31.133	1.00	28.92	6
ATOM	1263	O	ASP	A	167	20.459	66.350	30.589	1.00	29.75	8
ATOM	1264	N									

ATOM	1280	CG	PHE	A	170	17.810	61.673	36.614	1.00	98.05	6
ATOM	1281	CD1	PHE	A	170	17.184	61.259	35.450	1.00	97.88	6
ATOM	1282	CD2	PHE	A	170	19.182	61.512	36.728	1.00	99.39	6
ATOM	1283	CE1	PHE	A	170	17.914	60.693	34.418	1.00	97.26	6
ATOM	1284	CE2	PHE	A	170	19.921	60.946	35.699	1.00	98.86	6
ATOM	1285	CZ	PHE	A	170	19.288	60.539	34.544	1.00	97.30	6
ATOM	1286	C	PHE	A	170	15.333	64.023	38.378	1.00	64.23	6
ATOM	1287	O	PHE	A	170	14.134	63.787	38.207	1.00	64.72	8
ATOM	1288	N	SER	A	171	15.785	64.620	39.476	1.00	39.73	7
ATOM	1289	CA	SER	A	171	14.868	65.024	40.540	1.00	38.09	6
ATOM	1290	CB	SER	A	171	15.535	66.065	41.444	1.00	78.49	6
ATOM	1291	OG	SER	A	171	14.693	66.419	42.525	1.00	80.28	8
ATOM	1292	C	SER	A	171	13.556	65.592	39.987	1.00	35.93	6
ATOM	1293	O	SER	A	171	13.555	66.540	39.201	1.00	36.51	8
ATOM	1294	N	PRO	A	172	12.419	64.991	40.369	1.00	48.33	7
ATOM	1295	CD	PRO	A	172	12.324	63.681	41.039	1.00	44.87	6
ATOM	1296	CA	PRO	A	172	11.098	65.448	39.916	1.00	47.93	6
ATOM	1297	CB	PRO	A	172	10.238	64.206	40.068	1.00	43.94	6
ATOM	1298	CG	PRO	A	172	10.838	63.550	41.291	1.00	44.29	6
ATOM	1299	C	PRO	A	172	10.631	66.582	40.814	1.00	46.83	6
ATOM	1300	O	PRO	A	172	9.736	67.335	40.472	1.00	47.00	8
ATOM	1301	N	VAL	A	173	11.252	66.679	41.982	1.00	41.35	7
ATOM	1302	CA	VAL	A	173	10.950	67.721	42.952	1.00	40.25	6
ATOM	1303	CB	VAL	A	173	11.693	67.420	44.270	1.00	29.43	6
ATOM	1304	CG1	VAL	A	173	11.439	68.512	45.283	1.00	30.41	6
ATOM	1305	CG2	VAL	A	173	11.245	66.063	44.815	1.00	27.70	6
ATOM	1306	C	VAL	A	173	11.445	69.031	42.342	1.00	39.45	6
ATOM	1307	O	VAL	A	173	12.603	69.127	41.955	1.00	39.32	8
ATOM	1308	N	ARG	A	174	10.589	70.038	42.237	1.00	59.70	7
ATOM	1309	CA	ARG	A	174	11.034	71.288	41.625	1.00	62.26	6
ATOM	1310	CB	ARG	A	174	10.105	71.677	40.469	1.00	140.03	6
ATOM	1311	CG	ARG	A	174	10.243	70.821	39.208	1.00	144.79	6
ATOM	1312	CD	ARG	A	174	11.541	71.100	38.433	1.00	149.38	6
ATOM	1313	NE	ARG	A	174	11.635	70.294	37.212	1.00	151.23	7
ATOM	1314	CZ	ARG	A	174	12.669	70.302	36.373	1.00	151.78	6
ATOM	1315	NH1	ARG	A	174	13.719	71.079	36.609	1.00	152.98	7
ATOM	1316	NH2	ARG	A	174	12.658	69.523	35.298	1.00	151.43	7
ATOM	1317	C	ARG	A	174	11.190	72.490	42.555	1.00	61.59	6
ATOM	1318	O	ARG	A	174	11.310	73.619	42.079	1.00	60.56	8
ATOM	1319	N	ARG	A	175	11.207	72.252	43.865	1.00	50.49	7
ATOM	1320	CA	ARG	A	175	11.345	73.323	44.853	1.00	48.86	6
ATOM	1321	CB	ARG	A	175	10.736	74.609	44.312	1.00	54.88	6
ATOM	1322	CG	ARG	A	175	10.585	75.698	45.317	1.00	54.77	6
ATOM	1323	CD	ARG	A	175	10.180	76.974	44.623	1.00	53.43	6
ATOM	1324	NE	ARG	A	175	9.537	77.896	45.545	1.00	53.72	7
ATOM	1325	CZ	ARG	A	175	9.203	79.137	45.232	1.00	53.04	6
ATOM	1326	NH1	ARG	A	175	9.464	79.596	44.017	1.00	53.52	7
ATOM	1327	NH2	ARG	A	175	8.591	79.908	46.122	1.00	52.20	7
ATOM	1328	C	ARG	A	175	10.610	72.895	46.109	1.00	48.09	6
ATOM	1329	O	ARG	A	175	9.603	72.218	46.010	1.00	49.40	8
ATOM	1330	N	VAL	A	176	11.104	73.282	47.282	1.00	34.91	7
ATOM	1331	CA	VAL	A	176	10.473	72.902	48.552	1.00	35.21	6
ATOM	1332	CB	VAL	A	176	10.989	71.547	49.077	1.00	13.87	6
ATOM	1333	CG1	VAL	A	176	10.037	71.013	50.122	1.00	13.87	6
ATOM	1334	CG2	VAL	A	176	11.208	70.567	47.947	1.00	13.87	6
ATOM	1335	C	VAL	A	176	10.769	73.881	49.683	1.00	36.88	6

ATOM	1336	O	VAL	A	176	11.909	74.302	49.860	1.00	37.11	8
ATOM	1337	N	ALA	A	177	9.752	74.213	50.468	1.00	45.24	7
ATOM	1338	CA	ALA	A	177	9.925	75.106	51.619	1.00	47.00	6
ATOM	1339	CB	ALA	A	177	9.479	76.520	51.272	1.00	36.43	6
ATOM	1340	C	ALA	A	177	9.082	74.553	52.769	1.00	48.64	6
ATOM	1341	O	ALA	A	177	8.533	73.459	52.661	1.00	48.85	8
ATOM	1342	N	PHE	A	178	8.983	75.282	53.873	1.00	98.12	7
ATOM	1343	CA	PHE	A	178	8.156	74.790	54.961	1.00	100.59	6
ATOM	1344	CB	PHE	A	178	8.641	73.404	55.393	1.00	40.54	6
ATOM	1345	CG	PHE	A	178	9.908	73.401	56.184	1.00	42.13	6
ATOM	1346	CD1	PHE	A	178	9.878	73.537	57.567	1.00	42.94	6
ATOM	1347	CD2	PHE	A	178	11.126	73.173	55.563	1.00	43.85	6
ATOM	1348	CE1	PHE	A	178	11.046	73.437	58.325	1.00	46.29	6
ATOM	1349	CE2	PHE	A	178	12.304	73.071	56.311	1.00	46.44	6
ATOM	1350	CZ	PHE	A	178	12.263	73.200	57.696	1.00	47.46	6
ATOM	1351	C	PHE	A	178	8.020	75.719	56.154	1.00	103.23	6
ATOM	1352	O	PHE	A	178	8.988	75.976	56.866	1.00	105.47	8
ATOM	1353	N	GLN	A	179	6.803	76.224	56.359	1.00	36.08	7
ATOM	1354	CA	GLN	A	179	6.512	77.136	57.459	1.00	37.00	6
ATOM	1355	CB	GLN	A	179	5.137	77.766	57.254	1.00	92.61	6
ATOM	1356	CG	GLN	A	179	4.987	78.522	55.951	1.00	96.35	6
ATOM	1357	CD	GLN	A	179	5.787	79.805	55.924	1.00	99.08	6
ATOM	1358	OE1	GLN	A	179	7.015	79.782	55.942	1.00	101.45	8
ATOM	1359	NE2	GLN	A	179	5.090	80.938	55.889	1.00	99.95	7
ATOM	1360	C	GLN	A	179	6.536	76.385	58.784	1.00	37.83	6
ATOM	1361	O	GLN	A	179	6.288	75.183	58.822	1.00	38.53	8
ATOM	1362	N	VAL	A	180	6.852	77.085	59.869	1.00	74.13	7
ATOM	1363	CA	VAL	A	180	6.873	76.453	61.180	1.00	76.69	6
ATOM	1364	CB	VAL	A	180	8.290	76.399	61.781	1.00	62.85	6
ATOM	1365	CG1	VAL	A	180	8.292	75.548	63.055	1.00	62.38	6
ATOM	1366	CG2	VAL	A	180	9.256	75.814	60.773	1.00	63.79	6
ATOM	1367	C	VAL	A	180	5.977	77.248	62.110	1.00	78.88	6
ATOM	1368	O	VAL	A	180	6.244	77.347	63.307	1.00	79.49	8
ATOM	1369	N	GLU	A	181	4.912	77.809	61.539	1.00	79.29	7
ATOM	1370	CA	GLU	A	181	3.934	78.610	62.270	1.00	81.32	6
ATOM	1371	CB	GLU	A	181	2.627	78.668	61.501	1.00	65.76	6
ATOM	1372	CG	GLU	A	181	2.766	79.155	60.093	1.00	67.56	6
ATOM	1373	CD	GLU	A	181	1.498	78.947	59.293	1.00	68.61	6
ATOM	1374	OE1	GLU	A	181	0.434	79.440	59.728	1.00	69.63	8
ATOM	1375	OE2	GLU	A	181	1.565	78.289	58.231	1.00	68.52	8
ATOM	1376	C	GLU	A							

ATOM	1392	O	THR	A	183	-2.896	76.922	65.835	1.00106.41	8
ATOM	1393	N	ARG	A	184	-1.575	76.674	67.638	1.00139.74	7
ATOM	1394	CA	ARG	A	184	-2.292	75.505	68.101	1.00141.90	6
ATOM	1395	CB	ARG	A	184	-1.407	74.268	67.905	1.00 97.52	6
ATOM	1396	CG	ARG	A	184	-0.950	74.092	66.450	1.00 98.60	6
ATOM	1397	CD	ARG	A	184	-2.150	74.213	65.501	1.00 99.55	6
ATOM	1398	NE	ARG	A	184	-1.814	74.104	64.082	1.00100.02	7
ATOM	1399	CZ	ARG	A	184	-2.697	74.265	63.100	1.00 99.96	6
ATOM	1400	NH1	ARG	A	184	-3.961	74.545	63.382	1.00 99.41	7
ATOM	1401	NH2	ARG	A	184	-2.326	74.127	61.837	1.00100.11	7
ATOM	1402	C	ARG	A	184	-2.717	75.663	69.554	1.00142.96	6
ATOM	1403	O	ARG	A	184	-2.285	76.593	70.232	1.00143.20	8
ATOM	1404	N	ALA	A	185	-3.578	74.769	70.026	1.00187.75	7
ATOM	1405	CA	ALA	A	185	-4.043	74.836	71.405	1.00188.97	6
ATOM	1406	CB	ALA	A	185	-5.543	74.605	71.462	1.00138.79	6
ATOM	1407	C	ALA	A	185	-3.316	73.806	72.260	1.00189.46	6
ATOM	1408	O	ALA	A	185	-3.080	74.034	73.448	1.00190.37	8
ATOM	1409	N	GLY	A	186	-2.968	72.680	71.639	1.00113.15	7
ATOM	1410	CA	GLY	A	186	-2.262	71.609	72.321	1.00111.99	6
ATOM	1411	C	GLY	A	186	-2.071	71.790	73.815	1.00112.66	6
ATOM	1412	O	GLY	A	186	-2.942	71.421	74.601	1.00112.80	8
ATOM	1413	N	GLN	A	187	-0.934	72.360	74.209	1.00115.28	7
ATOM	1414	CA	GLN	A	187	-0.628	72.584	75.621	1.00115.21	6
ATOM	1415	CB	GLN	A	187	-0.019	71.318	76.236	1.00172.74	6
ATOM	1416	CG	GLN	A	187	-0.943	70.103	76.187	1.00174.52	6
ATOM	1417	CD	GLN	A	187	-0.394	68.908	76.942	1.00175.30	6
ATOM	1418	OE1	GLN	A	187	0.693	68.415	76.643	1.00176.13	8
ATOM	1419	NE2	GLN	A	187	-1.149	68.431	77.924	1.00175.29	7
ATOM	1420	C	GLN	A	187	0.338	73.752	75.790	1.00115.15	6
ATOM	1421	O	GLN	A	187	1.550	73.580	75.696	1.00115.42	8
ATOM	1422	N	ARG	A	188	-0.207	74.936	76.049	1.00172.13	7
ATOM	1423	CA	ARG	A	188	0.599	76.141	76.227	1.00170.84	6
ATOM	1424	CB	ARG	A	188	1.701	75.908	77.268	1.00192.51	6
ATOM	1425	CG	ARG	A	188	2.709	77.045	77.374	1.00194.75	6
ATOM	1426	CD	ARG	A	188	3.794	76.741	78.391	1.00197.08	6
ATOM	1427	NE	ARG	A	188	4.826	77.771	78.390	1.00200.84	7
ATOM	1428	CZ	ARG	A	188	5.871	77.781	79.208	1.00202.51	6
ATOM	1429	NH1	ARG	A	188	6.025	76.811	80.100	1.00204.00	7
ATOM	1430	NH2	ARG	A	188	6.765	78.759	79.134	1.00202.86	7
ATOM	1431	C	ARG	A	188	1.230	76.544	74.903	1.00169.28	6
ATOM	1432	O	ARG	A	188	2.128	75.865	74.409	1.00168.87	8
ATOM	1433	N	THR	A	189	0.750	77.649	74.338	1.00187.44	7
ATOM	1434	CA	THR	A	189	1.259	78.160	73.069	1.00184.73	6
ATOM	1435	CB	THR	A	189	0.939	79.662	72.903	1.00190.85	6
ATOM	1436	OG1	THR	A	189	-0.479	79.859	72.975	1.00191.29	8
ATOM	1437	CG2	THR	A	189	1.445	80.172	71.559	1.00190.83	6
ATOM	1438	C	THR	A	189	2.768	77.970	73.008	1.00183.57	6
ATOM	1439	O	THR	A	189	3.528	78.815	73.482	1.00183.68	8
ATOM	1440	N	ASP	A	190	3.191	76.852	72.424	1.00 96.77	7
ATOM	1441	CA	ASP	A	190	4.606	76.525	72.301	1.00 93.47	6
ATOM	1442	CB	ASP	A	190	5.046	75.638	73.464	1.00145.73	6
ATOM	1443	CG	ASP	A	190	5.658	76.419	74.598	1.00147.45	6
ATOM	1444	OD1	ASP	A	190	6.643	77.144	74.345	1.00148.52	8
ATOM	1445	OD2	ASP	A	190	5.163	76.301	75.741	1.00147.80	8
ATOM	1446	C	ASP	A	190	4.863	75.785	71.003	1.00 92.04	6
ATOM	1447	O	ASP	A	190	5.592	76.265	70.139	1.00 92.19	8



ATOM	1448	N	LEU	A	191	4.253	74.608	70.902	1.00	81.88	7
ATOM	1449	CA	LEU	A	191	4.351	73.704	69.753	1.00	78.93	6
ATOM	1450	CB	LEU	A	191	3.047	72.923	69.620	1.00	86.98	6
ATOM	1451	CG	LEU	A	191	2.224	72.796	70.898	1.00	87.57	6
ATOM	1452	CD1	LEU	A	191	0.873	72.186	70.565	1.00	88.40	6
ATOM	1453	CD2	LEU	A	191	2.981	71.956	71.911	1.00	88.35	6
ATOM	1454	C	LEU	A	191	4.661	74.334	68.391	1.00	76.05	6
ATOM	1455	O	LEU	A	191	4.416	75.519	68.158	1.00	75.94	8
ATOM	1456	N	ASP	A	192	5.198	73.520	67.487	1.00	94.98	7
ATOM	1457	CA	ASP	A	192	5.495	73.991	66.142	1.00	90.90	6
ATOM	1458	CB	ASP	A	192	6.811	73.386	65.580	1.00	64.72	6
ATOM	1459	CG	ASP	A	192	7.920	73.233	66.627	1.00	64.42	6
ATOM	1460	OD1	ASP	A	192	8.246	74.208	67.333	1.00	65.46	8
ATOM	1461	OD2	ASP	A	192	8.486	72.123	66.725	1.00	62.37	8
ATOM	1462	C	ASP	A	192	4.328	73.486	65.289	1.00	88.07	6
ATOM	1463	O	ASP	A	192	3.627	72.550	65.676	1.00	87.89	8
ATOM	1464	N	LYS	A	193	4.108	74.121	64.147	1.00	18.48	7
ATOM	1465	CA	LYS	A	193	3.075	73.685	63.230	1.00	13.87	6
ATOM	1466	CB	LYS	A	193	2.039	74.782	62.995	1.00	68.35	6
ATOM	1467	CG	LYS	A	193	1.084	74.454	61.853	1.00	70.13	6
ATOM	1468	CD	LYS	A	193	0.278	75.654	61.402	1.00	71.76	6
ATOM	1469	CE	LYS	A	193	-0.453	75.341	60.102	1.00	72.69	6
ATOM	1470	NZ	LYS	A	193	-1.416	76.411	59.712	1.00	74.05	7
ATOM	1471	C	LYS	A	193	3.772	73.356	61.905	1.00	13.87	6
ATOM	1472	O	LYS	A	193	3.733	74.134	60.954	1.00	13.87	8
ATOM	1473	N	LEU	A	194	4.411	72.194	61.837	1.00	49.50	7
ATOM	1474	CA	LEU	A	194	5.113	71.801	60.619	1.00	47.28	6
ATOM	1475	CB	LEU	A	194	5.700	70.408	60.779	1.00	40.96	6
ATOM	1476	CG	LEU	A	194	7.002	70.187	60.018	1.00	40.77	6
ATOM	1477	CD1	LEU	A	194	7.432	68.770	60.271	1.00	42.47	6
ATOM	1478	CD2	LEU	A	194	6.838	70.435	58.534	1.00	40.79	6
ATOM	1479	C	LEU	A	194	4.164	71.819	59.436	1.00	45.66	6
ATOM	1480	O	LEU	A	194	2.980	71.566	59.582	1.00	46.31	8
ATOM	1481	N	THR	A	195	4.673	72.115	58.255	1.00	23.66	7
ATOM	1482	CA	THR	A	195	3.795	72.156	57.112	1.00	23.58	6
ATOM	1483	CB	THR	A	195	2.764	73.333	57.272	1.00	47.51	6
ATOM	1484	OG1	THR	A	195	2.457	73.916	55.999	1.00	49.59	8
ATOM	1485	CG2	THR	A	195	3.307	74.398	58.183	1.00	49.19	6
ATOM	1486	C	THR	A	195	4.558	72.275	55.797	1.00	21.65	6
ATOM	1487	O	THR	A	195	4.413	73.270	55.077	1.00	20.96	8
ATOM	1488	N	LEU	A							

ATOM	1504	NH2	ARG	A	197	4.842	78.793	50.303	1.00	46.95	7
ATOM	1505	C	ARG	A	197	5.201	71.099	49.512	1.00	52.55	6
ATOM	1506	O	ARG	A	197	4.357	70.908	48.627	1.00	52.73	8
ATOM	1507	N	ILE	A	198	6.433	70.595	49.435	1.00	26.26	7
ATOM	1508	CA	ILE	A	198	6.870	69.860	48.251	1.00	27.90	6
ATOM	1509	CB	ILE	A	198	6.540	68.363	48.304	1.00	33.44	6
ATOM	1510	CG2	ILE	A	198	6.900	67.725	46.961	1.00	33.55	6
ATOM	1511	CG1	ILE	A	198	7.342	67.658	49.403	1.00	33.58	6
ATOM	1512	CD1	ILE	A	198	6.944	68.011	50.806	1.00	36.15	6
ATOM	1513	C	ILE	A	198	6.162	70.441	47.045	1.00	29.28	6
ATOM	1514	O	ILE	A	198	5.218	69.867	46.534	1.00	28.51	8
ATOM	1515	N	TRP	A	199	6.616	71.608	46.620	1.00	70.20	7
ATOM	1516	CA	TRP	A	199	6.053	72.300	45.476	1.00	74.84	6
ATOM	1517	CB	TRP	A	199	6.808	73.591	45.261	1.00	66.80	6
ATOM	1518	CG	TRP	A	199	5.977	74.760	44.961	1.00	67.13	6
ATOM	1519	CD2	TRP	A	199	6.068	76.032	45.592	1.00	67.77	6
ATOM	1520	CE2	TRP	A	199	5.173	76.891	44.927	1.00	68.77	6
ATOM	1521	CE3	TRP	A	199	6.827	76.534	46.656	1.00	67.48	6
ATOM	1522	CD1	TRP	A	199	5.051	74.881	43.971	1.00	67.47	6
ATOM	1523	NE1	TRP	A	199	4.563	76.162	43.938	1.00	68.79	7
ATOM	1524	CZ2	TRP	A	199	5.013	78.236	45.293	1.00	69.60	6
ATOM	1525	CZ3	TRP	A	199	6.672	77.862	47.018	1.00	68.06	6
ATOM	1526	CH2	TRP	A	199	5.773	78.700	46.339	1.00	69.07	6
ATOM	1527	C	TRP	A	199	6.181	71.445	44.222	1.00	77.11	6
ATOM	1528	O	TRP	A	199	6.307	70.227	44.299	1.00	78.95	8
ATOM	1529	N	THR	A	200	6.179	72.120	43.075	1.00	59.51	7
ATOM	1530	CA	THR	A	200	6.264	71.507	41.746	1.00	61.97	6
ATOM	1531	CB	THR	A	200	6.925	72.484	40.735	1.00	108.21	6
ATOM	1532	OG1	THR	A	200	6.202	73.720	40.724	1.00	108.86	8
ATOM	1533	CG2	THR	A	200	6.921	71.898	39.330	1.00	109.30	6
ATOM	1534	C	THR	A	200	6.990	70.163	41.638	1.00	61.64	6
ATOM	1535	O	THR	A	200	7.902	69.851	42.413	1.00	61.28	8
ATOM	1536	N	ASP	A	201	6.569	69.368	40.661	1.00	26.09	7
ATOM	1537	CA	ASP	A	201	7.185	68.082	40.413	1.00	27.98	6
ATOM	1538	CB	ASP	A	201	6.372	66.988	41.076	1.00	68.36	6
ATOM	1539	CG	ASP	A	201	6.389	67.104	42.566	1.00	71.72	6
ATOM	1540	OD1	ASP	A	201	5.887	68.124	43.072	1.00	73.07	8
ATOM	1541	OD2	ASP	A	201	6.903	66.181	43.232	1.00	73.40	8
ATOM	1542	C	ASP	A	201	7.372	67.772	38.922	1.00	29.33	6
ATOM	1543	O	ASP	A	201	6.637	68.285	38.057	1.00	29.41	8
ATOM	1544	N	GLY	A	202	8.379	66.952	38.621	1.00	97.53	7
ATOM	1545	CA	GLY	A	202	8.616	66.570	37.247	1.00	98.37	6
ATOM	1546	C	GLY	A	202	7.383	65.788	36.850	1.00	99.53	6
ATOM	1547	O	GLY	A	202	6.434	66.341	36.283	1.00	99.89	8
ATOM	1548	N	SER	A	203	7.382	64.501	37.187	1.00	102.96	7
ATOM	1549	CA	SER	A	203	6.258	63.625	36.882	1.00	101.80	6
ATOM	1550	CB	SER	A	203	6.750	62.365	36.168	1.00	86.92	6
ATOM	1551	OG	SER	A	203	7.569	61.575	37.014	1.00	84.76	8
ATOM	1552	C	SER	A	203	5.495	63.228	38.145	1.00	101.29	6
ATOM	1553	O	SER	A	203	4.282	63.427	38.219	1.00	101.42	8
ATOM	1554	N	VAL	A	204	6.212	62.687	39.133	1.00	55.39	7
ATOM	1555	CA	VAL	A	204	5.602	62.243	40.385	1.00	53.33	6
ATOM	1556	CB	VAL	A	204	6.618	61.599	41.316	1.00	24.32	6
ATOM	1557	CG1	VAL	A	204	7.507	60.687	40.546	1.00	23.40	6
ATOM	1558	CG2	VAL	A	204	7.383	62.654	42.044	1.00	23.67	6
ATOM	1559	C	VAL	A	204	4.858	63.288	41.210	1.00	52.68	6

ATOM	1560	O	VAL	A	204	4.943	64.493	40.965	1.00	52.37	8
ATOM	1561	N	THR	A	205	4.151	62.786	42.217	1.00	48.41	7
ATOM	1562	CA	THR	A	205	3.329	63.592	43.095	1.00	48.06	6
ATOM	1563	CB	THR	A	205	2.014	62.892	43.336	1.00	81.95	6
ATOM	1564	OG1	THR	A	205	1.553	62.352	42.094	1.00	84.75	8
ATOM	1565	CG2	THR	A	205	0.983	63.861	43.882	1.00	82.63	6
ATOM	1566	C	THR	A	205	3.979	63.857	44.434	1.00	46.17	6
ATOM	1567	O	THR	A	205	4.649	62.995	44.989	1.00	45.62	8
ATOM	1568	N	PRO	A	206	3.767	65.065	44.980	1.00	35.54	7
ATOM	1569	CD	PRO	A	206	3.005	66.193	44.404	1.00	15.27	6
ATOM	1570	CA	PRO	A	206	4.339	65.450	46.265	1.00	36.44	6
ATOM	1571	CB	PRO	A	206	3.639	66.763	46.551	1.00	14.81	6
ATOM	1572	CG	PRO	A	206	3.532	67.360	45.175	1.00	13.87	6
ATOM	1573	C	PRO	A	206	4.128	64.415	47.349	1.00	36.97	6
ATOM	1574	O	PRO	A	206	5.055	64.086	48.074	1.00	36.90	8
ATOM	1575	N	LEU	A	207	2.912	63.898	47.461	1.00	83.40	7
ATOM	1576	CA	LEU	A	207	2.622	62.891	48.473	1.00	85.60	6
ATOM	1577	CB	LEU	A	207	1.172	62.415	48.362	1.00	141.23	6
ATOM	1578	CG	LEU	A	207	0.790	61.243	49.272	1.00	141.75	6
ATOM	1579	CD1	LEU	A	207	1.127	61.575	50.723	1.00	141.73	6
ATOM	1580	CD2	LEU	A	207	-0.690	60.937	49.107	1.00	142.22	6
ATOM	1581	C	LEU	A	207	3.566	61.712	48.284	1.00	85.87	6
ATOM	1582	O	LEU	A	207	3.850	60.975	49.225	1.00	86.19	8
ATOM	1583	N	GLU	A	208	4.046	61.542	47.055	1.00	68.68	7
ATOM	1584	CA	GLU	A	208	4.967	60.459	46.736	1.00	68.93	6
ATOM	1585	CB	GLU	A	208	4.865	60.109	45.242	1.00	99.32	6
ATOM	1586	CG	GLU	A	208	3.421	59.967	44.737	1.00	99.03	6
ATOM	1587	CD	GLU	A	208	3.320	59.389	43.328	1.00	99.46	6
ATOM	1588	OE1	GLU	A	208	3.687	58.209	43.142	1.00	99.84	8
ATOM	1589	OE2	GLU	A	208	2.872	60.111	42.406	1.00	99.14	8
ATOM	1590	C	GLU	A	208	6.378	60.936	47.103	1.00	68.54	6
ATOM	1591	O	GLU	A	208	7.150	60.215	47.741	1.00	67.68	8
ATOM	1592	N	ALA	A	209	6.710	62.159	46.701	1.00	75.76	7
ATOM	1593	CA	ALA	A	209	8.007	62.720	47.038	1.00	75.57	6
ATOM	1594	CB	ALA	A	209	8.098	64.190	46.570	1.00	13.87	6
ATOM	1595	C	ALA	A	209	8.041	62.631	48.560	1.00	75.45	6
ATOM	1596	O	ALA	A	209	8.779	61.831	49.128	1.00	75.66	8
ATOM	1597	N	LEU	A	210	7.204	63.438	49.205	1.00	70.26	7
ATOM	1598	CA	LEU	A	210	7.089	63.467	50.658	1.00	69.79	6
ATOM	1599	CB	LEU	A	210	5.782	64.151	51.057	1.00	48.86	6
ATOM	1600	CG	LEU	A	210</						

ATOM	1616	CG	GLN	A	212	10.206	57.438	46.870	1.00135.91	6
ATOM	1617	CD	GLN	A	212	9.778	57.674	45.438	1.00138.12	6
ATOM	1618	OE1	GLN	A	212	10.162	58.665	44.816	1.00138.09	8
ATOM	1619	NE2	GLN	A	212	8.976	56.762	44.904	1.00139.89	7
ATOM	1620	C	GLN	A	212	10.666	58.910	50.118	1.00100.76	6
ATOM	1621	O	GLN	A	212	11.576	58.234	50.592	1.00100.37	8
ATOM	1622	N	ALA	A	213	10.507	60.204	50.373	1.00 67.79	7
ATOM	1623	CA	ALA	A	213	11.420	60.940	51.220	1.00 65.50	6
ATOM	1624	CB	ALA	A	213	10.995	62.382	51.298	1.00 13.87	6
ATOM	1625	C	ALA	A	213	11.475	60.333	52.608	1.00 64.69	6
ATOM	1626	O	ALA	A	213	12.525	59.856	53.030	1.00 65.22	8
ATOM	1627	N	VAL	A	214	10.349	60.341	53.317	1.00 68.52	7
ATOM	1628	CA	VAL	A	214	10.311	59.790	54.673	1.00 69.21	6
ATOM	1629	CB	VAL	A	214	8.852	59.699	55.228	1.00100.42	6
ATOM	1630	CG1	VAL	A	214	8.155	61.040	55.090	1.00101.75	6
ATOM	1631	CG2	VAL	A	214	8.069	58.622	54.503	1.00101.44	6
ATOM	1632	C	VAL	A	214	10.934	58.397	54.694	1.00 68.93	6
ATOM	1633	O	VAL	A	214	11.367	57.906	55.738	1.00 69.47	8
ATOM	1634	N	ALA	A	215	10.986	57.777	53.519	1.00 54.30	7
ATOM	1635	CA	ALA	A	215	11.531	56.438	53.371	1.00 51.91	6
ATOM	1636	CB	ALA	A	215	11.193	55.893	51.997	1.00 65.24	6
ATOM	1637	C	ALA	A	215	13.023	56.442	53.567	1.00 50.60	6
ATOM	1638	O	ALA	A	215	13.527	55.844	54.507	1.00 50.82	8
ATOM	1639	N	ILE	A	216	13.721	57.129	52.671	1.00 43.01	7
ATOM	1640	CA	ILE	A	216	15.172	57.198	52.722	1.00 41.44	6
ATOM	1641	CB	ILE	A	216	15.730	58.209	51.708	1.00 19.95	6
ATOM	1642	CG2	ILE	A	216	17.099	57.774	51.249	1.00 18.66	6
ATOM	1643	CG1	ILE	A	216	14.829	58.282	50.484	1.00 19.48	6
ATOM	1644	CD1	ILE	A	216	14.631	56.966	49.787	1.00 21.24	6
ATOM	1645	C	ILE	A	216	15.663	57.587	54.108	1.00 41.48	6
ATOM	1646	O	ILE	A	216	16.557	56.940	54.656	1.00 41.44	8
ATOM	1647	N	LEU	A	217	15.072	58.635	54.679	1.00 28.89	7
ATOM	1648	CA	LEU	A	217	15.470	59.104	56.003	1.00 28.88	6
ATOM	1649	CB	LEU	A	217	14.667	60.346	56.379	1.00 22.95	6
ATOM	1650	CG	LEU	A	217	14.900	60.934	57.770	1.00 21.45	6
ATOM	1651	CD1	LEU	A	217	16.368	60.994	58.127	1.00 20.21	6
ATOM	1652	CD2	LEU	A	217	14.311	62.321	57.757	1.00 21.23	6
ATOM	1653	C	LEU	A	217	15.320	58.037	57.082	1.00 29.41	6
ATOM	1654	O	LEU	A	217	16.083	58.010	58.049	1.00 29.86	8
ATOM	1655	N	LYS	A	218	14.328	57.164	56.913	1.00 50.57	7
ATOM	1656	CA	LYS	A	218	14.084	56.078	57.859	1.00 51.86	6
ATOM	1657	CB	LYS	A	218	12.685	55.496	57.679</		

ATOM	1672	O	GLU	A	219	18.427	53.215	56.706	1.00	60.38	8
ATOM	1673	N	HIS	A	220	18.054	55.386	56.262	1.00	65.87	7
ATOM	1674	CA	HIS	A	220	19.359	55.800	56.741	1.00	65.62	6
ATOM	1675	CB	HIS	A	220	19.667	57.206	56.282	1.00	39.54	6
ATOM	1676	CG	HIS	A	220	19.896	57.301	54.816	1.00	38.27	6
ATOM	1677	CD2	HIS	A	220	19.095	57.728	53.815	1.00	37.65	6
ATOM	1678	ND1	HIS	A	220	21.047	56.838	54.218	1.00	37.62	7
ATOM	1679	CE1	HIS	A	220	20.942	56.973	52.909	1.00	37.73	6
ATOM	1680	NE2	HIS	A	220	19.766	57.510	52.639	1.00	37.89	7
ATOM	1681	C	HIS	A	220	19.377	55.752	58.237	1.00	65.89	6
ATOM	1682	O	HIS	A	220	20.261	55.148	58.828	1.00	67.49	8
ATOM	1683	N	LEU	A	221	18.396	56.397	58.853	1.00	48.36	7
ATOM	1684	CA	LEU	A	221	18.305	56.408	60.304	1.00	48.22	6
ATOM	1685	CB	LEU	A	221	16.867	56.693	60.721	1.00	31.54	6
ATOM	1686	CG	LEU	A	221	16.566	57.975	61.495	1.00	30.44	6
ATOM	1687	CD1	LEU	A	221	17.607	58.127	62.603	1.00	30.22	6
ATOM	1688	CD2	LEU	A	221	16.553	59.181	60.566	1.00	29.38	6
ATOM	1689	C	LEU	A	221	18.736	55.047	60.862	1.00	48.73	6
ATOM	1690	O	LEU	A	221	19.479	54.960	61.849	1.00	48.06	8
ATOM	1691	N	ASN	A	222	18.267	53.990	60.199	1.00	57.57	7
ATOM	1692	CA	ASN	A	222	18.561	52.618	60.594	1.00	58.23	6
ATOM	1693	CB	ASN	A	222	18.084	51.638	59.523	1.00	62.29	6
ATOM	1694	CG	ASN	A	222	16.568	51.594	59.405	1.00	62.92	6
ATOM	1695	OD1	ASN	A	222	15.856	51.358	60.386	1.00	63.28	8
ATOM	1696	ND2	ASN	A	222	16.067	51.816	58.199	1.00	63.76	7
ATOM	1697	C	ASN	A	222	20.032	52.423	60.828	1.00	58.36	6
ATOM	1698	O	ASN	A	222	20.447	52.071	61.926	1.00	58.19	8
ATOM	1699	N	TYR	A	223	20.810	52.667	59.782	1.00	57.73	7
ATOM	1700	CA	TYR	A	223	22.261	52.520	59.819	1.00	58.14	6
ATOM	1701	CB	TYR	A	223	22.914	53.522	58.857	1.00	81.51	6
ATOM	1702	CG	TYR	A	223	22.622	53.233	57.395	1.00	81.37	6
ATOM	1703	CD1	TYR	A	223	22.759	51.944	56.883	1.00	81.65	6
ATOM	1704	CE1	TYR	A	223	22.503	51.670	55.549	1.00	82.13	6
ATOM	1705	CD2	TYR	A	223	22.221	54.245	56.525	1.00	80.64	6
ATOM	1706	CE2	TYR	A	223	21.963	53.980	55.189	1.00	81.03	6
ATOM	1707	CZ	TYR	A	223	22.105	52.691	54.708	1.00	81.92	6
ATOM	1708	OH	TYR	A	223	21.842	52.412	53.386	1.00	82.77	8
ATOM	1709	C	TYR	A	223	22.911	52.622	61.197	1.00	58.19	6
ATOM	1710	O	TYR	A	223	23.891	51.921	61.467	1.00	58.31	8
ATOM	1711	N	PHE	A	224	22.388	53.482	62.067	1.00	62.07	7

ATOM	1728	CA	ASN	A	226	25.369	47.711	65.092	1.00	80.93	6
ATOM	1729	CB	ASN	A	226	25.399	46.255	64.621	1.00	184.67	6
ATOM	1730	CG	ASN	A	226	24.239	45.444	65.168	1.00	186.86	6
ATOM	1731	OD1	ASN	A	226	24.046	44.287	64.793	1.00	187.92	8
ATOM	1732	ND2	ASN	A	226	23.463	46.045	66.066	1.00	187.67	7
ATOM	1733	C	ASN	A	226	26.759	48.329	64.969	1.00	80.54	6
ATOM	1734	O	ASN	A	226	27.355	48.365	63.892	1.00	80.25	8
ATOM	1735	N	PRO	A	227	27.301	48.806	66.095	1.00	31.83	7
ATOM	1736	CD	PRO	A	227	26.576	48.977	67.370	1.00	64.99	6
ATOM	1737	CA	PRO	A	227	28.614	49.440	66.160	1.00	32.33	6
ATOM	1738	CB	PRO	A	227	28.393	50.513	67.207	1.00	64.99	6
ATOM	1739	CG	PRO	A	227	27.572	49.753	68.225	1.00	64.42	6
ATOM	1740	C	PRO	A	227	29.736	48.501	66.549	1.00	33.14	6
ATOM	1741	O	PRO	A	227	29.510	47.554	67.297	1.00	32.56	8
ATOM	1742	N	GLU	A	228	30.944	48.779	66.054	1.00	45.58	7
ATOM	1743	CA	GLU	A	228	32.119	47.962	66.368	1.00	47.66	6
ATOM	1744	CB	GLU	A	228	32.962	47.714	65.112	1.00	122.21	6
ATOM	1745	CG	GLU	A	228	32.226	47.022	63.975	1.00	125.27	6
ATOM	1746	CD	GLU	A	228	33.048	46.960	62.698	1.00	126.99	6
ATOM	1747	OE1	GLU	A	228	33.469	48.027	62.204	1.00	127.85	8
ATOM	1748	OE2	GLU	A	228	33.272	45.846	62.184	1.00	128.27	8
ATOM	1749	C	GLU	A	228	32.961	48.719	67.387	1.00	47.81	6
ATOM	1750	O	GLU	A	228	32.563	48.761	68.572	1.00	48.48	8
ATOM	1751	OXT	GLU	A	228	34.003	49.278	66.984	1.00	122.18	8
ATOM	1752	CB	ALA	B	3	36.891	46.742	48.658	1.00	177.12	6
ATOM	1753	C	ALA	B	3	35.150	46.906	50.443	1.00	140.19	6
ATOM	1754	O	ALA	B	3	35.794	46.246	51.264	1.00	140.05	8
ATOM	1755	N	ALA	B	3	34.714	47.787	48.149	1.00	139.84	7
ATOM	1756	CA	ALA	B	3	35.397	46.724	48.947	1.00	139.99	6
ATOM	1757	N	SER	B	4	34.224	47.811	50.775	1.00	101.63	7
ATOM	1758	CA	SER	B	4	33.825	48.123	52.156	1.00	100.90	6
ATOM	1759	CB	SER	B	4	34.990	47.939	53.138	1.00	153.10	6
ATOM	1760	OG	SER	B	4	35.096	46.587	53.558	1.00	154.08	8
ATOM	1761	C	SER	B	4	33.278	49.539	52.305	1.00	99.84	6
ATOM	1762	O	SER	B	4	34.037	50.510	52.324	1.00	100.06	8
ATOM	1763	N	ALA	B	5	31.956	49.630	52.423	1.00	120.11	7
ATOM	1764	CA	ALA	B	5	31.232	50.889	52.586	1.00	119.35	6
ATOM	1765	CB	ALA	B	5	31.983	52.033	51.925	1.00	90.01	6
ATOM	1766	C	ALA	B	5	29.853	50.744	51.955	1.00	118.60	6
ATOM	1767	O	ALA	B	5	28.836	50.697	52.649	1.00	118.65	8
ATOM	1768	N	ALA	B	6	29.845	50.667	50.627	1.00	101.80	7
ATOM	1769	CA	ALA	B	6	28.631	50.519	49.829	1.00	101.01	6
ATOM	1770	CB	ALA	B	6	28.490	49.062	49.369	1.00	18.92	6
ATOM	1771	C	ALA	B	6	27.351	50.984	50.526	1.00	100.19	6
ATOM	1772	O	ALA	B	6	27.349	51.981	51.249	1.00	101.16	8
ATOM	1773	N	LYS	B	7	26.261	50.260	50.293	1.00	113.51	7
ATOM	1774	CA	LYS	B	7	24.971	50.601	50.878	1.00	111.85	6
ATOM	1775	CB	LYS	B	7	23.841	50.078	49.985	1.00	206.39	6
ATOM	1776	CG	LYS	B	7	23.851	50.697	48.595	1.00	208.87	6
ATOM	1777	CD	LYS	B	7	22.788	50.116	47.670	1.00	208.87	6
ATOM	1778	CE	LYS	B	7	22.858	50.783	46.293	1.00	208.87	6
ATOM	1779	NZ	LYS	B	7	21.902	50.212	45.298	1.00	208.87	7
ATOM	1780	C	LYS	B	7	24.821	50.048	52.285	1.00	109.93	6
ATOM	1781	O	LYS	B	7	23.808	49.435	52.615	1.00	110.05	8
ATOM	1782	N	ALA	B	8	25.835	50.272	53.114	1.00	61.60	7
ATOM	1783	CA	ALA	B	8	25.815	49.803	54.492	1.00	58.50	6

ATOM	1784	CB	ALA	B	8	25.895	48.298	54.521	1.00	56.84	6
ATOM	1785	C	ALA	B	8	26.989	50.402	55.254	1.00	56.66	6
ATOM	1786	O	ALA	B	8	28.016	49.749	55.439	1.00	56.49	8
ATOM	1787	N	PRO	B	9	26.847	51.654	55.717	1.00	53.70	7
ATOM	1788	CD	PRO	B	9	25.625	52.472	55.654	1.00	64.50	6
ATOM	1789	CA	PRO	B	9	27.898	52.354	56.460	1.00	51.92	6
ATOM	1790	CB	PRO	B	9	27.319	53.753	56.635	1.00	63.49	6
ATOM	1791	CG	PRO	B	9	25.857	53.478	56.754	1.00	64.27	6
ATOM	1792	C	PRO	B	9	28.239	51.697	57.784	1.00	51.30	6
ATOM	1793	O	PRO	B	9	27.392	51.053	58.400	1.00	51.69	8
ATOM	1794	N	VAL	B	10	29.487	51.878	58.207	1.00	51.49	7
ATOM	1795	CA	VAL	B	10	29.983	51.312	59.450	1.00	50.52	6
ATOM	1796	CB	VAL	B	10	31.460	50.948	59.346	1.00	58.34	6
ATOM	1797	CG1	VAL	B	10	31.892	50.206	60.596	1.00	58.83	6
ATOM	1798	CG2	VAL	B	10	31.705	50.121	58.100	1.00	58.45	6
ATOM	1799	C	VAL	B	10	29.846	52.297	60.590	1.00	50.72	6
ATOM	1800	O	VAL	B	10	30.563	53.298	60.636	1.00	51.63	8
ATOM	1801	N	PHE	B	11	28.929	51.986	61.505	1.00	53.80	7
ATOM	1802	CA	PHE	B	11	28.627	52.789	62.693	1.00	52.66	6
ATOM	1803	CB	PHE	B	11	27.231	52.403	63.167	1.00	77.05	6
ATOM	1804	CG	PHE	B	11	26.651	53.330	64.173	1.00	77.97	6
ATOM	1805	CD1	PHE	B	11	26.463	54.671	63.869	1.00	78.45	6
ATOM	1806	CD2	PHE	B	11	26.251	52.855	65.418	1.00	79.06	6
ATOM	1807	CE1	PHE	B	11	25.883	55.527	64.786	1.00	78.89	6
ATOM	1808	CE2	PHE	B	11	25.667	53.704	66.346	1.00	79.40	6
ATOM	1809	CZ	PHE	B	11	25.482	55.044	66.029	1.00	79.32	6
ATOM	1810	C	PHE	B	11	29.673	52.486	63.786	1.00	53.13	6
ATOM	1811	O	PHE	B	11	29.660	51.407	64.379	1.00	53.82	8
ATOM	1812	N	THR	B	12	30.575	53.429	64.056	1.00	66.78	7
ATOM	1813	CA	THR	B	12	31.636	53.207	65.047	1.00	67.68	6
ATOM	1814	CB	THR	B	12	33.026	53.500	64.437	1.00	114.71	6
ATOM	1815	OG1	THR	B	12	33.244	52.650	63.305	1.00	115.14	8
ATOM	1816	CG2	THR	B	12	34.120	53.252	65.460	1.00	115.46	6
ATOM	1817	C	THR	B	12	31.501	54.033	66.323	1.00	68.21	6
ATOM	1818	O	THR	B	12	31.599	55.258	66.286	1.00	68.13	8
ATOM	1819	N	ALA	B	13	31.315	53.351	67.454	1.00	70.17	7
ATOM	1820	CA	ALA	B	13	31.151	54.002	68.760	1.00	71.26	6
ATOM	1821	CB	ALA	B	13	30.227	53.173	69.630	1.00	41.04	6
ATOM	1822	C	ALA	B	13	32.459	54.233	69.502	1.00	73.13	6
ATOM	1823	O	ALA	B	13	33.526	53.838	69.038	1.00	74.07	8
ATOM	1824	N	THR	B	14	32.371	54.867	70.668	1.00	89.91	7
ATOM	1825	CA	THR	B	14	33.561	55.127	71.473	1.00	91.34	6
ATOM	1826	CB	THR	B	14	34.018	56.582	71.335	1.00	149.30	6
ATOM	1827	OG1	THR	B	14	34.368	56.838	69.968	1.00	151.79	8
ATOM	1828	CG2	THR	B	14	35.232	56.852	72.214	1.00	148.89	6
ATOM	1829	C	THR	B	14	33.351	54.802	72.946	1.00	93.15	6
ATOM	1830	O	THR	B	14	34.305	54.731	73.713	1.00	93.29	8
ATOM	1831	N	THR	B	15	32.095	54.612	73.332	1.00	108.52	7
ATOM	1832	CA	THR	B	15	31.741	54.251	74.701	1.00	109.63	6
ATOM	1833	CB	THR	B	15	31.501	52.723	74.807	1.00	158.82	6
ATOM	1834	OG1	THR	B	15	32.586	52.022	74.187	1.00	160.26	8
ATOM	1835	CG2	THR	B	15	30.196	52.331	74.119	1.00	158.82	6
ATOM	1836	C	THR	B	15	32.739	54.657	75.791	1.00	110.48	6
ATOM	1837	O	THR	B	15	33.354	53.804	76.432	1.00	111.01	8
ATOM	1838	N	GLN	B	16	32.893	55.959	76.008	1.00	86.50	7
ATOM	1839	CA	GLN	B	16	33.806	56.463	77.034	1.00	87.15	6

ATOM	1840	CB	GLN	B	16	33.877	57.996	76.949	1.00	90.84	6
ATOM	1841	CG	GLN	B	16	34.756	58.676	77.985	1.00	92.61	6
ATOM	1842	CD	GLN	B	16	36.183	58.158	77.984	1.00	94.30	6
ATOM	1843	OE1	GLN	B	16	36.836	58.104	76.941	1.00	96.12	8
ATOM	1844	NE2	GLN	B	16	36.679	57.783	79.159	1.00	95.03	7
ATOM	1845	C	GLN	B	16	33.307	56.022	78.414	1.00	88.26	6
ATOM	1846	O	GLN	B	16	33.879	56.382	79.442	1.00	88.50	8
ATOM	1847	N	GLY	B	17	32.237	55.232	78.426	1.00	144.12	7
ATOM	1848	CA	GLY	B	17	31.684	54.764	79.682	1.00	143.78	6
ATOM	1849	C	GLY	B	17	30.395	55.477	80.037	1.00	144.22	6
ATOM	1850	O	GLY	B	17	29.395	55.356	79.332	1.00	144.77	8
ATOM	1851	N	ASP	B	18	30.413	56.231	81.128	1.00	104.50	7
ATOM	1852	CA	ASP	B	18	29.223	56.951	81.561	1.00	103.73	6
ATOM	1853	CB	ASP	B	18	29.371	57.379	83.021	1.00	208.05	6
ATOM	1854	CG	ASP	B	18	30.681	58.084	83.288	1.00	208.87	6
ATOM	1855	OD1	ASP	B	18	31.740	57.435	83.153	1.00	208.87	8
ATOM	1856	OD2	ASP	B	18	30.651	59.284	83.632	1.00	208.87	8
ATOM	1857	C	ASP	B	18	28.871	58.164	80.702	1.00	102.50	6
ATOM	1858	O	ASP	B	18	27.779	58.714	80.836	1.00	102.98	8
ATOM	1859	N	HIS	B	19	29.792	58.590	79.836	1.00	46.05	7
ATOM	1860	CA	HIS	B	19	29.548	59.727	78.943	1.00	44.55	6
ATOM	1861	CB	HIS	B	19	29.669	61.056	79.703	1.00	142.23	6
ATOM	1862	CG	HIS	B	19	30.981	61.256	80.394	1.00	144.41	6
ATOM	1863	CD2	HIS	B	19	32.128	60.536	80.370	1.00	145.87	6
ATOM	1864	ND1	HIS	B	19	31.221	62.328	81.225	1.00	145.49	7
ATOM	1865	CE1	HIS	B	19	32.457	62.262	81.684	1.00	146.38	6
ATOM	1866	NE2	HIS	B	19	33.029	61.183	81.179	1.00	146.80	7
ATOM	1867	C	HIS	B	19	30.449	59.743	77.705	1.00	42.86	6
ATOM	1868	O	HIS	B	19	31.104	58.758	77.389	1.00	41.54	8
ATOM	1869	N	TYR	B	20	30.464	60.864	76.998	1.00	101.12	7
ATOM	1870	CA	TYR	B	20	31.275	61.004	75.793	1.00	98.97	6
ATOM	1871	CB	TYR	B	20	32.761	61.154	76.146	1.00	129.01	6
ATOM	1872	CG	TYR	B	20	33.590	61.769	75.031	1.00	130.15	6
ATOM	1873	CD1	TYR	B	20	34.959	61.990	75.189	1.00	130.78	6
ATOM	1874	CE1	TYR	B	20	35.718	62.591	74.171	1.00	131.57	6
ATOM	1875	CD2	TYR	B	20	32.997	62.160	73.827	1.00	130.28	6
ATOM	1876	CE2	TYR	B	20	33.740	62.759	72.808	1.00	130.52	6
ATOM	1877	CZ	TYR	B	20	35.099	62.974	72.981	1.00	130.95	6
ATOM	1878	OH	TYR	B	20	35.825	63.575	71.966	1.00	129.42	8
ATOM	1879	C	TYR	B	20	31.106	59.821	74.849	1.00	96.88	6
ATOM	1880	O	TYR	B	20	32.029	59.035	74.654	1.00	97.42	8
ATOM	1881	N	GLY	B	21	29.924	59.702	74.261	1.00	94.58	7
ATOM	1882	CA	GLY	B	21	29.669	58.615	73.339	1.00	91.23	6
ATOM	1883	C	GLY	B	21	30.045	58.982	71.918	1.00	90.19	6
ATOM	1884	O	GLY	B	21	29.182	59.139	71.058	1.00	90.24	8
ATOM	1885	N	GLU	B	22	31.342	59.124	71.676	1.00	82.21	7
ATOM	1886	CA	GLU	B	22	31.865	59.467	70.356	1.00	79.42	6
ATOM	1887	CB	GLU	B	22	33.386	59.547	70.456	1.00	80.54	6
ATOM	1888	CG	GLU	B	22	34.110	60.342	69.407	1.00	81.39	6
ATOM	1889	CD	GLU	B	22	35.596	60.408	69.716	1.00	82.92	6
ATOM	1890	OE1	GLU	B	22	36.274	59.369	69.576	1.00	82.42	8
ATOM	1891	OE2	GLU	B	22	36.086	61.489	70.118	1.00	84.93	8
ATOM	1892	C	GLU	B	22	31.438	58.371	69.368	1.00	77.68	6
ATOM	1893	O	GLU	B	22	31.832	57.211	69.502	1.00	77.30	8
ATOM	1894	N	PHE	B	23	30.617	58.736	68.387	1.00	48.34	7
ATOM	1895	CA	PHE	B	23	30.125	57.766	67.405	1.00	45.62	6



ATOM	1896	CB	PHE	B	23	28.607	57.648	67.541	1.00	54.52	6
ATOM	1897	CG	PHE	B	23	28.164	57.240	68.920	1.00	53.70	6
ATOM	1898	CD1	PHE	B	23	26.861	57.435	69.330	1.00	54.29	6
ATOM	1899	CD2	PHE	B	23	29.065	56.674	69.816	1.00	52.65	6
ATOM	1900	CE1	PHE	B	23	26.458	57.077	70.611	1.00	55.28	6
ATOM	1901	CE2	PHE	B	23	28.672	56.314	71.098	1.00	53.37	6
ATOM	1902	CZ	PHE	B	23	27.368	56.515	71.497	1.00	54.11	6
ATOM	1903	C	PHE	B	23	30.538	58.118	65.978	1.00	44.10	6
ATOM	1904	O	PHE	B	23	30.849	59.265	65.688	1.00	44.77	8
ATOM	1905	N	VAL	B	24	30.534	57.139	65.082	1.00	44.68	7
ATOM	1906	CA	VAL	B	24	30.993	57.388	63.726	1.00	43.27	6
ATOM	1907	CB	VAL	B	24	32.529	57.187	63.625	1.00	15.18	6
ATOM	1908	CG1	VAL	B	24	32.988	57.381	62.216	1.00	13.87	6
ATOM	1909	CG2	VAL	B	24	33.248	58.131	64.528	1.00	15.68	6
ATOM	1910	C	VAL	B	24	30.395	56.492	62.656	1.00	44.28	6
ATOM	1911	O	VAL	B	24	30.974	55.449	62.353	1.00	44.86	8
ATOM	1912	N	LEU	B	25	29.253	56.865	62.081	1.00	60.79	7
ATOM	1913	CA	LEU	B	25	28.698	56.055	60.994	1.00	60.09	6
ATOM	1914	CB	LEU	B	25	27.172	56.238	60.872	1.00	15.01	6
ATOM	1915	CG	LEU	B	25	26.568	57.265	59.920	1.00	13.87	6
ATOM	1916	CD1	LEU	B	25	26.903	56.857	58.514	1.00	13.87	6
ATOM	1917	CD2	LEU	B	25	25.053	57.330	60.085	1.00	13.87	6
ATOM	1918	C	LEU	B	25	29.476	56.695	59.848	1.00	61.13	6
ATOM	1919	O	LEU	B	25	29.722	57.903	59.889	1.00	60.97	8
ATOM	1920	N	GLU	B	26	29.866	55.924	58.832	1.00	89.90	7
ATOM	1921	CA	GLU	B	26	30.705	56.519	57.794	1.00	91.26	6
ATOM	1922	CB	GLU	B	26	32.037	55.774	57.778	1.00	102.03	6
ATOM	1923	CG	GLU	B	26	33.175	56.601	57.229	1.00	104.07	6
ATOM	1924	CD	GLU	B	26	34.422	55.782	57.030	1.00	107.14	6
ATOM	1925	OE1	GLU	B	26	34.388	54.866	56.182	1.00	109.13	8
ATOM	1926	OE2	GLU	B	26	35.428	56.044	57.724	1.00	107.71	8
ATOM	1927	C	GLU	B	26	30.263	56.838	56.348	1.00	90.05	6
ATOM	1928	O	GLU	B	26	29.431	57.728	56.157	1.00	90.37	8
ATOM	1929	N	PRO	B	27	30.785	56.125	55.317	1.00	56.95	7
ATOM	1930	CD	PRO	B	27	31.531	54.861	55.190	1.00	13.87	6
ATOM	1931	CA	PRO	B	27	30.309	56.550	53.993	1.00	58.52	6
ATOM	1932	CB	PRO	B	27	30.825	55.449	53.056	1.00	14.57	6
ATOM	1933	CG	PRO	B	27	32.052	54.963	53.766	1.00	13.87	6
ATOM	1934	C	PRO	B	27	28.822	56.836	53.851	1.00	58.78	6
ATOM	1935	O	PRO	B	27	27.965	55.972	54.047	1.00	59.53	8
ATOM	1936	N	LEU	B	28	28.536	58.086	53.519	1.00	37.49	7
ATOM	1937	CA	LEU	B	28	27.174	58.550	53.347	1.00	38.26	6
ATOM	1938	CB	LEU	B	28	26.741	59.309	54.611	1.00	21.14	6
ATOM	1939	CG	LEU	B	28	26.710	58.546	55.951	1.00	18.35	6
ATOM	1940	CD1	LEU	B	28	26.465	59.481	57.103	1.00	18.15	6
ATOM	1941	CD2	LEU	B	28	25.622	57.519	55.898	1.00	17.94	6
ATOM	1942	C	LEU	B	28	27.232	59.479	52.150	1.00	39.15	6
ATOM	1943	O	LEU	B	28	28.181	60.234	52.018	1.00	39.68	8
ATOM	1944	N	GLU	B	29	26.246	59.418	51.267	1.00	28.57	7
ATOM	1945	CA	GLU	B	29	26.255	60.294	50.095	1.00	30.85	6
ATOM	1946	CB	GLU	B	29	25.014	60.038	49.235	1.00	193.66	6
ATOM	1947	CG	GLU	B	29	25.037	60.724	47.871	1.00	198.20	6
ATOM	1948	CD	GLU	B	29	26.068	60.131	46.927	1.00	200.49	6
ATOM	1949	OE1	GLU	B	29	27.268	60.137	47.276	1.00	202.11	8
ATOM	1950	OE2	GLU	B	29	25.677	59.659	45.835	1.00	199.88	8
ATOM	1951	C	GLU	B	29	26.296	61.769	50.530	1.00	29.83	6

ATOM	1952	O	GLU	B	29	25.524	62.200	51.405	1.00	28.53	8
ATOM	1953	N	ARG	B	30	27.183	62.548	49.915	1.00	47.67	7
ATOM	1954	CA	ARG	B	30	27.313	63.950	50.295	1.00	48.20	6
ATOM	1955	CB	ARG	B	30	28.083	64.749	49.228	1.00	85.66	6
ATOM	1956	CG	ARG	B	30	27.338	64.986	47.926	1.00	89.54	6
ATOM	1957	CD	ARG	B	30	27.587	66.396	47.389	1.00	92.43	6
ATOM	1958	NE	ARG	B	30	26.693	66.724	46.275	1.00	95.87	7
ATOM	1959	CZ	ARG	B	30	26.707	67.874	45.602	1.00	96.56	6
ATOM	1960	NH1	ARG	B	30	27.571	68.830	45.922	1.00	96.82	7
ATOM	1961	NH2	ARG	B	30	25.863	68.065	44.597	1.00	96.67	7
ATOM	1962	C	ARG	B	30	25.958	64.596	50.553	1.00	45.28	6
ATOM	1963	O	ARG	B	30	25.218	64.905	49.629	1.00	44.63	8
ATOM	1964	N	GLY	B	31	25.619	64.788	51.816	1.00	66.33	7
ATOM	1965	CA	GLY	B	31	24.349	65.420	52.101	1.00	66.30	6
ATOM	1966	C	GLY	B	31	23.482	64.622	53.040	1.00	65.00	6
ATOM	1967	O	GLY	B	31	22.256	64.592	52.895	1.00	65.26	8
ATOM	1968	N	PHE	B	32	24.120	63.962	53.996	1.00	58.11	7
ATOM	1969	CA	PHE	B	32	23.403	63.171	54.977	1.00	55.81	6
ATOM	1970	CB	PHE	B	32	23.260	61.722	54.506	1.00	24.56	6
ATOM	1971	CG	PHE	B	32	22.180	61.538	53.483	1.00	21.18	6
ATOM	1972	CD1	PHE	B	32	20.874	61.282	53.877	1.00	20.75	6
ATOM	1973	CD2	PHE	B	32	22.451	61.701	52.126	1.00	19.17	6
ATOM	1974	CE1	PHE	B	32	19.853	61.199	52.946	1.00	19.26	6
ATOM	1975	CE2	PHE	B	32	21.431	61.623	51.180	1.00	17.56	6
ATOM	1976	CZ	PHE	B	32	20.131	61.371	51.592	1.00	18.01	6
ATOM	1977	C	PHE	B	32	24.156	63.259	56.277	1.00	55.18	6
ATOM	1978	O	PHE	B	32	23.590	63.048	57.347	1.00	56.33	8
ATOM	1979	N	GLY	B	33	25.439	63.580	56.189	1.00	33.58	7
ATOM	1980	CA	GLY	B	33	26.199	63.727	57.408	1.00	34.02	6
ATOM	1981	C	GLY	B	33	25.458	64.819	58.154	1.00	33.98	6
ATOM	1982	O	GLY	B	33	25.449	64.881	59.384	1.00	33.68	8
ATOM	1983	N	VAL	B	34	24.820	65.690	57.376	1.00	53.79	7
ATOM	1984	CA	VAL	B	34	24.043	66.790	57.919	1.00	53.45	6
ATOM	1985	CB	VAL	B	34	23.890	67.945	56.906	1.00	33.83	6
ATOM	1986	CG1	VAL	B	34	23.298	69.148	57.586	1.00	35.07	6
ATOM	1987	CG2	VAL	B	34	25.219	68.294	56.294	1.00	35.07	6
ATOM	1988	C	VAL	B	34	22.658	66.236	58.180	1.00	53.28	6
ATOM	1989	O	VAL	B	34	22.196	66.197	59.321	1.00	53.53	8
ATOM	1990	N	THR	B	35	22.023	65.781	57.100	1.00	54.49	7
ATOM	1991	CA	THR	B	35	20.665	65.249	57.137	1.00	53.19	6
ATOM	1992	CB	THR	B	35	20.323					

ATOM	2008	O	GLY	B	37	22.953	65.375	64.503	1.00	72.33	8
ATOM	2009	N	ASN	B	38	22.386	66.277	62.524	1.00	65.39	7
ATOM	2010	CA	ASN	B	38	21.673	67.384	63.150	1.00	65.26	6
ATOM	2011	CB	ASN	B	38	21.300	68.446	62.113	1.00	25.63	6
ATOM	2012	CG	ASN	B	38	21.229	69.838	62.718	1.00	24.58	6
ATOM	2013	OD1	ASN	B	38	20.472	70.697	62.258	1.00	26.11	8
ATOM	2014	ND2	ASN	B	38	22.036	70.074	63.749	1.00	22.75	7
ATOM	2015	C	ASN	B	38	20.431	66.983	63.955	1.00	66.04	6
ATOM	2016	O	ASN	B	38	20.450	67.067	65.184	1.00	66.24	8
ATOM	2017	N	PRO	B	39	19.339	66.538	63.284	1.00	86.12	7
ATOM	2018	CD	PRO	B	39	19.158	66.243	61.850	1.00	27.75	6
ATOM	2019	CA	PRO	B	39	18.132	66.150	64.023	1.00	86.08	6
ATOM	2020	CB	PRO	B	39	17.337	65.378	62.985	1.00	27.67	6
ATOM	2021	CG	PRO	B	39	17.665	66.099	61.737	1.00	26.77	6
ATOM	2022	C	PRO	B	39	18.429	65.327	65.270	1.00	87.63	6
ATOM	2023	O	PRO	B	39	17.793	65.515	66.305	1.00	88.84	8
ATOM	2024	N	LEU	B	40	19.389	64.412	65.170	1.00	37.16	7
ATOM	2025	CA	LEU	B	40	19.771	63.610	66.327	1.00	38.01	6
ATOM	2026	CB	LEU	B	40	20.829	62.552	65.964	1.00	30.64	6
ATOM	2027	CG	LEU	B	40	20.398	61.361	65.106	1.00	30.84	6
ATOM	2028	CD1	LEU	B	40	19.168	60.700	65.700	1.00	30.00	6
ATOM	2029	CD2	LEU	B	40	20.101	61.836	63.705	1.00	31.53	6
ATOM	2030	C	LEU	B	40	20.341	64.569	67.361	1.00	38.69	6
ATOM	2031	O	LEU	B	40	19.853	64.629	68.481	1.00	38.27	8
ATOM	2032	N	ARG	B	41	21.369	65.321	66.971	1.00	55.38	7
ATOM	2033	CA	ARG	B	41	22.003	66.298	67.858	1.00	56.87	6
ATOM	2034	CB	ARG	B	41	23.079	67.091	67.089	1.00	81.26	6
ATOM	2035	CG	ARG	B	41	23.262	68.555	67.505	1.00	84.64	6
ATOM	2036	CD	ARG	B	41	22.236	69.446	66.809	1.00	87.81	6
ATOM	2037	NE	ARG	B	41	22.300	70.844	67.226	1.00	91.69	7
ATOM	2038	CZ	ARG	B	41	21.468	71.790	66.791	1.00	94.10	6
ATOM	2039	NH1	ARG	B	41	20.507	71.488	65.927	1.00	95.61	7
ATOM	2040	NH2	ARG	B	41	21.591	73.040	67.220	1.00	95.48	7
ATOM	2041	C	ARG	B	41	20.939	67.238	68.411	1.00	55.92	6
ATOM	2042	O	ARG	B	41	20.902	67.543	69.608	1.00	56.14	8
ATOM	2043	N	ARG	B	42	20.069	67.692	67.523	1.00	57.87	7
ATOM	2044	CA	ARG	B	42	19.005	68.579	67.920	1.00	57.13	6
ATOM	2045	CB	ARG	B	42	18.113	68.868	66.727	1.00	64.73	6
ATOM	2046	CG	ARG	B	42	17.240	70.072	66.892	1.00	65.29	6
ATOM	2047	CD	ARG	B	42	16.208	70.092	65.800	1.00	66.30	6
ATOM	2048	NE	ARG	B	42	15.518					

ATOM	2064	CB	LEU	B	44	21.035	64.674	71.090	1.00	38.30	6
ATOM	2065	CG	LEU	B	44	21.711	63.320	70.966	1.00	39.26	6
ATOM	2066	CD1	LEU	B	44	20.927	62.307	71.762	1.00	39.28	6
ATOM	2067	CD2	LEU	B	44	21.826	62.931	69.505	1.00	39.06	6
ATOM	2068	C	LEU	B	44	19.593	65.742	72.778	1.00	46.18	6
ATOM	2069	O	LEU	B	44	19.448	65.327	73.932	1.00	45.77	8
ATOM	2070	N	LEU	B	45	19.768	67.030	72.467	1.00	43.02	7
ATOM	2071	CA	LEU	B	45	19.802	68.093	73.471	1.00	42.79	6
ATOM	2072	CB	LEU	B	45	20.227	69.412	72.835	1.00	59.53	6
ATOM	2073	CG	LEU	B	45	21.718	69.572	72.551	1.00	59.66	6
ATOM	2074	CD1	LEU	B	45	21.947	70.993	72.028	1.00	59.91	6
ATOM	2075	CD2	LEU	B	45	22.548	69.307	73.827	1.00	59.49	6
ATOM	2076	C	LEU	B	45	18.485	68.302	74.182	1.00	43.51	6
ATOM	2077	O	LEU	B	45	18.447	68.848	75.283	1.00	42.99	8
ATOM	2078	N	SER	B	46	17.410	67.867	73.539	1.00	139.02	7
ATOM	2079	CA	SER	B	46	16.076	68.000	74.095	1.00	140.04	6
ATOM	2080	CB	SER	B	46	15.203	68.840	73.160	1.00	52.11	6
ATOM	2081	OG	SER	B	46	15.746	70.140	73.005	1.00	52.48	8
ATOM	2082	C	SER	B	46	15.445	66.631	74.284	1.00	141.18	6
ATOM	2083	O	SER	B	46	16.113	65.664	74.662	1.00	141.89	8
ATOM	2084	N	SER	B	47	14.146	66.576	74.022	1.00	62.93	7
ATOM	2085	CA	SER	B	47	13.361	65.360	74.121	1.00	62.15	6
ATOM	2086	CB	SER	B	47	12.688	65.132	72.773	1.00	33.15	6
ATOM	2087	OG	SER	B	47	12.207	66.370	72.280	1.00	34.70	8
ATOM	2088	C	SER	B	47	14.147	64.116	74.558	1.00	61.77	6
ATOM	2089	O	SER	B	47	14.852	63.499	73.768	1.00	61.78	8
ATOM	2090	N	ILE	B	48	14.020	63.780	75.835	1.00	37.83	7
ATOM	2091	CA	ILE	B	48	14.660	62.615	76.439	1.00	37.39	6
ATOM	2092	CB	ILE	B	48	16.191	62.619	76.259	1.00	16.95	6
ATOM	2093	CG2	ILE	B	48	16.860	61.854	77.420	1.00	17.05	6
ATOM	2094	CG1	ILE	B	48	16.564	61.993	74.915	1.00	14.85	6
ATOM	2095	CD1	ILE	B	48	18.001	61.528	74.848	1.00	15.56	6
ATOM	2096	C	ILE	B	48	14.346	62.631	77.930	1.00	39.08	6
ATOM	2097	O	ILE	B	48	14.724	63.554	78.638	1.00	39.18	8
ATOM	2098	N	PRO	B	49	13.663	61.595	78.430	1.00	39.29	7
ATOM	2099	CD	PRO	B	49	13.423	60.297	77.780	1.00	99.40	6
ATOM	2100	CA	PRO	B	49	13.312	61.537	79.855	1.00	40.69	6
ATOM	2101	CB	PRO	B	49	12.806	60.104	80.025	1.00	99.95	6
ATOM	2102	CG	PRO	B	49	13.533	59.355	78.940	1.00	100.22	6
ATOM	2103	C	PRO	B	49	14.463	61.872	80.803	1.00	41.75	6
ATOM	2104	O	PRO	B	49	15.623	61.592	80.490	1.00	41.14	8
ATOM	2105	N	GLY	B	50	14.132	62.464	81.956	1.00	70.15	7
ATOM	2106	CA	GLY	B	50	15.150	62.840	82.929	1.00	71.83	6
ATOM	2107	C	GLY	B	50	14.865	62.678	84.422	1.00	74.05	6
ATOM	2108	O	GLY	B	50	14.013	61.892	84.842	1.00	74.59	8
ATOM	2109	N	THR	B	51	15.615	63.435	85.222	1.00	119.01	7
ATOM	2110	CA	THR	B	51	15.527	63.441	86.688	1.00	118.26	6
ATOM	2111	CB	THR	B	51	16.147	62.177	87.314	1.00	46.81	6
ATOM	2112	OG1	THR	B	51	16.614	62.481	88.640	1.00	46.78	8
ATOM	2113	CG2	THR	B	51	17.319	61.690	86.468	1.00	46.66	6
ATOM	2114	C	THR	B	51	16.334	64.623	87.209	1.00	119.45	6
ATOM	2115	O	THR	B	51	17.516	64.475	87.534	1.00	119.94	8
ATOM	2116	N	ALA	B	52	15.706	65.790	87.303	1.00	103.75	7
ATOM	2117	CA	ALA	B	52	16.428	66.967	87.764	1.00	102.87	6
ATOM	2118	CB	ALA	B	52	16.697	67.892	86.582	1.00	152.39	6
ATOM	2119	C	ALA	B	52	15.774	67.756	88.889	1.00	102.49	6

ATOM	2120	O	ALA	B	52	14.593	68.104	88.815	1.00102.50	8
ATOM	2121	N	VAL	B	53	16.556	68.038	89.930	1.00 62.89	7
ATOM	2122	CA	VAL	B	53	16.071	68.827	91.054	1.00 61.42	6
ATOM	2123	CB	VAL	B	53	17.251	69.332	91.935	1.00 38.24	6
ATOM	2124	CG1	VAL	B	53	16.826	70.536	92.761	1.00 37.03	6
ATOM	2125	CG2	VAL	B	53	17.734	68.211	92.852	1.00 37.95	6
ATOM	2126	C	VAL	B	53	15.378	70.011	90.404	1.00 62.14	6
ATOM	2127	O	VAL	B	53	15.778	70.444	89.323	1.00 61.57	8
ATOM	2128	N	THR	B	54	14.336	70.534	91.031	1.00 59.37	7
ATOM	2129	CA	THR	B	54	13.668	71.654	90.412	1.00 61.52	6
ATOM	2130	CB	THR	B	54	12.606	71.155	89.423	1.00 86.50	6
ATOM	2131	OG1	THR	B	54	11.751	72.242	89.048	1.00 87.50	8
ATOM	2132	CG2	THR	B	54	11.797	70.029	90.039	1.00 88.32	6
ATOM	2133	C	THR	B	54	13.053	72.667	91.362	1.00 62.88	6
ATOM	2134	O	THR	B	54	12.680	73.758	90.935	1.00 62.88	8
ATOM	2135	N	SER	B	55	12.968	72.324	92.645	1.00 68.07	7
ATOM	2136	CA	SER	B	55	12.390	73.228	93.641	1.00 68.95	6
ATOM	2137	CB	SER	B	55	10.867	73.069	93.645	1.00 66.80	6
ATOM	2138	OG	SER	B	55	10.243	74.033	94.471	1.00 68.93	8
ATOM	2139	C	SER	B	55	12.980	72.906	95.020	1.00 69.81	6
ATOM	2140	O	SER	B	55	12.898	71.767	95.477	1.00 70.50	8
ATOM	2141	N	VAL	B	56	13.567	73.900	95.688	1.00 39.05	7
ATOM	2142	CA	VAL	B	56	14.199	73.652	96.985	1.00 39.67	6
ATOM	2143	CB	VAL	B	56	15.710	74.006	96.953	1.00 37.61	6
ATOM	2144	CG1	VAL	B	56	16.499	73.068	97.881	1.00 37.82	6
ATOM	2145	CG2	VAL	B	56	16.228	73.935	95.537	1.00 36.61	6
ATOM	2146	C	VAL	B	56	13.607	74.376	98.185	1.00 42.16	6
ATOM	2147	O	VAL	B	56	12.975	75.413	98.062	1.00 41.71	8
ATOM	2148	N	TYR	B	57	13.835	73.801	99.360	1.00 90.24	7
ATOM	2149	CA	TYR	B	57	13.374	74.370	100.621	1.00 91.74	6
ATOM	2150	CB	TYR	B	57	12.043	73.739	101.064	1.00 94.82	6
ATOM	2151	CG	TYR	B	57	11.673	74.012	102.515	1.00 96.56	6
ATOM	2152	CD1	TYR	B	57	10.822	73.157	103.210	1.00 97.93	6
ATOM	2153	CE1	TYR	B	57	10.521	73.377	104.553	1.00 99.32	6
ATOM	2154	CD2	TYR	B	57	12.204	75.101	103.204	1.00 96.87	6
ATOM	2155	CE2	TYR	B	57	11.911	75.326	104.539	1.00 98.00	6
ATOM	2156	CZ	TYR	B	57	11.075	74.463	105.206	1.00 99.30	6
ATOM	2157	OH	TYR	B	57	10.812	74.681	106.533	1.00 99.95	8
ATOM	2158	C	TYR	B	57	14.439	74.108	101.682	1.00 93.31	6
ATOM	2159	O	TYR	B	57	14.880	72.976	101.870	1.00 93.22	8
ATOM	2160	N	ILE	B	58	14.853	75.167	102.364	1.00150.74	7
ATOM	2161	CA	ILE	B	58	15.847	75.056	103.418	1.00152.30	6
ATOM	2162	CB	ILE	B	58	17.147	75.777	103.039	1.00 89.36	6
ATOM	2163	CG2	ILE	B	58	18.313	75.163	103.785	1.00 89.02	6
ATOM	2164	CG1	ILE	B	58	17.395	75.661	101.538	1.00 90.55	6
ATOM	2165	CD1	ILE	B	58	18.567	76.493	101.057	1.00 92.33	6
ATOM	2166	C	ILE	B	58	15.264	75.764	104.628	1.00153.96	6
ATOM	2167	O	ILE	B	58	15.192	76.991	104.637	1.00154.94	8
ATOM	2168	N	GLU	B	59	14.834	75.011	105.637	1.00 92.95	7
ATOM	2169	CA	GLU	B	59	14.267	75.642	106.820	1.00 93.68	6
ATOM	2170	CB	GLU	B	59	14.343	74.701	108.025	1.00208.87	6
ATOM	2171	CG	GLU	B	59	14.156	75.393	109.381	1.00208.87	6
ATOM	2172	CD	GLU	B	59	12.790	76.045	109.550	1.00208.87	6
ATOM	2173	OE1	GLU	B	59	12.400	76.865	108.690	1.00208.87	8
ATOM	2174	OE2	GLU	B	59	12.107	75.743	110.553	1.00208.87	8
ATOM	2175	C	GLU	B	59	15.024	76.932	107.126	1.00 93.98	6

ATOM	2176	O	GLU	B	59	16.247	76.987	106.976	1.00	94.44	8
ATOM	2177	N	ASP	B	60	14.277	77.964	107.521	1.00	148.93	7
ATOM	2178	CA	ASP	B	60	14.792	79.291	107.882	1.00	148.06	6
ATOM	2179	CB	ASP	B	60	16.301	79.267	108.164	1.00	106.25	6
ATOM	2180	CG	ASP	B	60	16.636	78.550	109.453	1.00	106.75	6
ATOM	2181	OD1	ASP	B	60	15.907	78.758	110.449	1.00	107.45	8
ATOM	2182	OD2	ASP	B	60	17.631	77.793	109.476	1.00	105.57	8
ATOM	2183	C	ASP	B	60	14.491	80.426	106.915	1.00	148.12	6
ATOM	2184	O	ASP	B	60	13.353	80.887	106.839	1.00	148.37	8
ATOM	2185	N	VAL	B	61	15.503	80.873	106.175	1.00	35.04	7
ATOM	2186	CA	VAL	B	61	15.327	82.001	105.258	1.00	34.64	6
ATOM	2187	CB	VAL	B	61	16.673	82.667	104.912	1.00	65.03	6
ATOM	2188	CG1	VAL	B	61	16.416	83.941	104.101	1.00	64.61	6
ATOM	2189	CG2	VAL	B	61	17.452	82.984	106.194	1.00	65.20	6
ATOM	2190	C	VAL	B	61	14.586	81.755	103.955	1.00	35.20	6
ATOM	2191	O	VAL	B	61	14.997	80.944	103.119	1.00	34.12	8
ATOM	2192	N	LEU	B	62	13.501	82.513	103.807	1.00	82.75	7
ATOM	2193	CA	LEU	B	62	12.609	82.476	102.656	1.00	84.93	6
ATOM	2194	CB	LEU	B	62	11.786	83.768	102.600	1.00	180.46	6
ATOM	2195	CG	LEU	B	62	10.976	84.239	103.811	1.00	182.79	6
ATOM	2196	CD1	LEU	B	62	10.711	85.733	103.688	1.00	183.84	6
ATOM	2197	CD2	LEU	B	62	9.670	83.473	103.903	1.00	183.75	6
ATOM	2198	C	LEU	B	62	13.343	82.321	101.329	1.00	85.94	6
ATOM	2199	O	LEU	B	62	13.969	81.295	101.055	1.00	86.60	8
ATOM	2200	N	HIS	B	63	13.240	83.375	100.521	1.00	90.72	7
ATOM	2201	CA	HIS	B	63	13.831	83.481	99.189	1.00	91.10	6
ATOM	2202	CB	HIS	B	63	13.728	84.933	98.730	1.00	157.38	6
ATOM	2203	CG	HIS	B	63	12.415	85.571	99.067	1.00	158.97	6
ATOM	2204	CD2	HIS	B	63	12.118	86.675	99.794	1.00	159.64	6
ATOM	2205	ND1	HIS	B	63	11.207	85.053	98.650	1.00	160.02	7
ATOM	2206	CE1	HIS	B	63	10.224	85.810	99.104	1.00	160.35	6
ATOM	2207	NE2	HIS	B	63	10.750	86.801	99.802	1.00	160.12	7
ATOM	2208	C	HIS	B	63	15.270	82.984	99.043	1.00	91.43	6
ATOM	2209	O	HIS	B	63	15.876	82.494	99.995	1.00	91.89	8
ATOM	2210	N	GLU	B	64	15.811	83.128	97.837	1.00	84.24	7
ATOM	2211	CA	GLU	B	64	17.157	82.657	97.525	1.00	83.49	6
ATOM	2212	CB	GLU	B	64	17.241	82.319	96.036	1.00	208.87	6
ATOM	2213	CG	GLU	B	64	18.573	81.744	95.598	1.00	208.87	6
ATOM	2214	CD	GLU	B	64	18.638	81.523	94.101	1.00	208.87	6
ATOM	2215	OE1	GLU	B	64	18.580	82.520	93.349	1.00	208.87	8</

ATOM	2232	CB	SER	B	66	19.443	84.347	102.204	1.00	57.99	6
ATOM	2233	OG	SER	B	66	19.889	84.077	103.529	1.00	58.99	8
ATOM	2234	C	SER	B	66	21.840	84.288	101.707	1.00	45.72	6
ATOM	2235	O	SER	B	66	22.649	83.984	100.838	1.00	45.98	8
ATOM	2236	N	THR	B	67	21.996	84.016	102.993	1.00	94.64	7
ATOM	2237	CA	THR	B	67	23.150	83.345	103.537	1.00	94.16	6
ATOM	2238	CB	THR	B	67	24.293	84.344	103.771	1.00	57.09	6
ATOM	2239	OG1	THR	B	67	24.952	84.609	102.528	1.00	58.32	8
ATOM	2240	CG2	THR	B	67	25.284	83.809	104.790	1.00	56.21	6
ATOM	2241	C	THR	B	67	22.701	82.780	104.870	1.00	95.18	6
ATOM	2242	O	THR	B	67	22.184	83.517	105.708	1.00	95.70	8
ATOM	2243	N	ILE	B	68	22.875	81.475	105.056	1.00	83.60	7
ATOM	2244	CA	ILE	B	68	22.499	80.829	106.308	1.00	82.48	6
ATOM	2245	CB	ILE	B	68	21.843	79.447	106.069	1.00	114.37	6
ATOM	2246	CG2	ILE	B	68	21.663	78.724	107.390	1.00	114.07	6
ATOM	2247	CG1	ILE	B	68	20.469	79.618	105.413	1.00	115.44	6
ATOM	2248	CD1	ILE	B	68	20.500	80.251	104.039	1.00	117.44	6
ATOM	2249	C	ILE	B	68	23.764	80.651	107.135	1.00	82.86	6
ATOM	2250	O	ILE	B	68	24.690	79.955	106.716	1.00	82.59	8
ATOM	2251	N	PRO	B	69	23.824	81.301	108.312	1.00	80.58	7
ATOM	2252	CD	PRO	B	69	22.772	82.186	108.846	1.00	122.52	6
ATOM	2253	CA	PRO	B	69	24.964	81.245	109.234	1.00	79.17	6
ATOM	2254	CB	PRO	B	69	24.443	81.980	110.465	1.00	122.46	6
ATOM	2255	CG	PRO	B	69	23.526	82.995	109.875	1.00	122.69	6
ATOM	2256	C	PRO	B	69	25.420	79.822	109.557	1.00	79.52	6
ATOM	2257	O	PRO	B	69	24.619	78.884	109.563	1.00	79.86	8
ATOM	2258	N	GLY	B	70	26.713	79.670	109.830	1.00	87.91	7
ATOM	2259	CA	GLY	B	70	27.250	78.359	110.143	1.00	86.45	6
ATOM	2260	C	GLY	B	70	27.129	77.449	108.943	1.00	86.68	6
ATOM	2261	O	GLY	B	70	26.694	76.305	109.069	1.00	86.14	8
ATOM	2262	N	VAL	B	71	27.505	77.985	107.780	1.00	139.89	7
ATOM	2263	CA	VAL	B	71	27.471	77.287	106.491	1.00	139.35	6
ATOM	2264	CB	VAL	B	71	26.024	77.202	105.922	1.00	72.29	6
ATOM	2265	CG1	VAL	B	71	26.024	76.399	104.645	1.00	73.35	6
ATOM	2266	CG2	VAL	B	71	25.089	76.552	106.922	1.00	71.63	6
ATOM	2267	C	VAL	B	71	28.350	78.065	105.491	1.00	139.62	6
ATOM	2268	O	VAL	B	71	27.965	79.138	105.023	1.00	139.95	8
ATOM	2269	N	LYS	B	72	29.518	77.510	105.167	1.00	95.33	7
ATOM	2270	CA	LYS	B	72	30.485	78.134	104.259	1.00	94.09	6
ATOM	2271	CB	LYS	B	72	31.643	77.172	103.957	1.00	76.78	6
ATOM	2272	CG	LYS	B	72	32.731	77.814	103.081	1.00	77.29	6
ATOM	2273	CD	LYS	B	72	33.940	76.909	102.803	1.00	77.12	6
ATOM	2274	CE	LYS	B	72	34.947	77.591	101.853	1.00	75.39	6
ATOM	2275	NZ	LYS	B	72	36.160	76.765	101.616	1.00	73.12	7
ATOM	2276	C	LYS	B	72	29.966	78.685	102.934	1.00	93.33	6
ATOM	2277	O	LYS	B	72	30.579	79.586	102.358	1.00	93.92	8
ATOM	2278	N	GLU	B	73	28.858	78.151	102.437	1.00	48.05	7
ATOM	2279	CA	GLU	B	73	28.303	78.619	101.171	1.00	46.06	6
ATOM	2280	CB	GLU	B	73	27.736	77.444	100.379	1.00	61.85	6
ATOM	2281	CG	GLU	B	73	28.775	76.626	99.653	1.00	62.12	6
ATOM	2282	CD	GLU	B	73	29.762	75.946	100.576	1.00	61.73	6
ATOM	2283	OE1	GLU	B	73	30.707	75.331	100.051	1.00	60.25	8
ATOM	2284	OE2	GLU	B	73	29.602	76.016	101.812	1.00	62.43	8
ATOM	2285	C	GLU	B	73	27.215	79.662	101.360	1.00	45.75	6
ATOM	2286	O	GLU	B	73	27.114	80.294	102.413	1.00	46.03	8
ATOM	2287	N	ASP	B	74	26.413	79.843	100.317	1.00	48.39	7

ATOM	2288	CA	ASP	B	74	25.303	80.783	100.336	1.00	48.20	6
ATOM	2289	CB	ASP	B	74	25.754	82.199	99.943	1.00	100.71	6
ATOM	2290	CG	ASP	B	74	26.104	82.330	98.459	1.00	103.97	6
ATOM	2291	OD1	ASP	B	74	27.091	81.708	98.015	1.00	106.12	8
ATOM	2292	OD2	ASP	B	74	25.393	83.062	97.734	1.00	104.82	8
ATOM	2293	C	ASP	B	74	24.294	80.277	99.333	1.00	47.37	6
ATOM	2294	O	ASP	B	74	24.651	79.984	98.199	1.00	47.73	8
ATOM	2295	N	VAL	B	75	23.042	80.169	99.760	1.00	64.39	7
ATOM	2296	CA	VAL	B	75	21.953	79.695	98.909	1.00	63.43	6
ATOM	2297	CB	VAL	B	75	20.794	80.729	98.850	1.00	47.93	6
ATOM	2298	CG1	VAL	B	75	19.467	80.017	98.584	1.00	47.57	6
ATOM	2299	CG2	VAL	B	75	20.724	81.509	100.145	1.00	48.16	6
ATOM	2300	C	VAL	B	75	22.367	79.352	97.472	1.00	63.96	6
ATOM	2301	O	VAL	B	75	22.440	78.179	97.115	1.00	64.80	8
ATOM	2302	N	VAL	B	76	22.650	80.362	96.653	1.00	56.51	7
ATOM	2303	CA	VAL	B	76	23.028	80.120	95.257	1.00	56.80	6
ATOM	2304	CB	VAL	B	76	23.573	81.398	94.585	1.00	61.33	6
ATOM	2305	CG1	VAL	B	76	23.925	81.118	93.128	1.00	62.03	6
ATOM	2306	CG2	VAL	B	76	22.537	82.490	94.658	1.00	60.79	6
ATOM	2307	C	VAL	B	76	24.036	78.993	95.028	1.00	57.25	6
ATOM	2308	O	VAL	B	76	23.783	78.110	94.212	1.00	58.30	8
ATOM	2309	N	GLU	B	77	25.171	79.027	95.729	1.00	35.97	7
ATOM	2310	CA	GLU	B	77	26.194	77.995	95.582	1.00	35.90	6
ATOM	2311	CB	GLU	B	77	27.321	78.183	96.582	1.00	69.87	6
ATOM	2312	CG	GLU	B	77	28.508	77.299	96.281	1.00	73.10	6
ATOM	2313	CD	GLU	B	77	29.192	77.696	94.990	1.00	76.53	6
ATOM	2314	OE1	GLU	B	77	28.482	77.915	93.986	1.00	78.26	8
ATOM	2315	OE2	GLU	B	77	30.439	77.788	94.972	1.00	78.38	8
ATOM	2316	C	GLU	B	77	25.564	76.640	95.805	1.00	36.73	6
ATOM	2317	O	GLU	B	77	25.716	75.749	94.982	1.00	38.73	8
ATOM	2318	N	ILE	B	78	24.863	76.479	96.926	1.00	55.17	7
ATOM	2319	CA	ILE	B	78	24.170	75.224	97.211	1.00	53.98	6
ATOM	2320	CB	ILE	B	78	23.296	75.295	98.500	1.00	56.27	6
ATOM	2321	CG2	ILE	B	78	22.354	74.123	98.541	1.00	57.67	6
ATOM	2322	CG1	ILE	B	78	24.160	75.269	99.767	1.00	56.37	6
ATOM	2323	CD1	ILE	B	78	24.404	76.621	100.397	1.00	56.85	6
ATOM	2324	C	ILE	B	78	23.237	75.032	96.024	1.00	53.97	6
ATOM	2325	O	ILE	B	78	23.360	74.061	95.281	1.00	54.16	8
ATOM	2326	N	ILE	B	79	22.319	75.987	95.857	1.00	65.75	7
ATOM	2327	CA	ILE	B	79	21.336	75.997	94.768	1.00	65.99	6
ATOM	2328	CB	ILE	B	79	20.848	77.444	94.451	1.00	69.77	6
ATOM	2329	CG2	ILE	B	79	20.368	77.526	93.008	1.00	69.39	6
ATOM	2330	CG1	ILE	B	79	19.730	77.872	95.415	1.00	70.43	6
ATOM	2331	CD1	ILE	B	79	18.324	77.478	94.988	1.00	73.67	6
ATOM	2332	C	ILE	B	79	21.931	75.424	93.496	1.00	67.00	6
ATOM	2333	O	ILE	B	79	21.353	74.534	92.878	1.00	67.69	8
ATOM	2334	N	LEU	B	80	23.086	75.956	93.108	1.00	70.57	7
ATOM	2335	CA	LEU	B	80	23.781	75.513	91.907	1.00	69.02	6
ATOM	2336	CB	LEU	B	80	24.942	76.467	91.597	1.00	26.59	6
ATOM	2337	CG	LEU	B	80	24.585	77.959	91.502	1.00	24.04	6
ATOM	2338	CD1	LEU	B	80	25.744	78.700	90.914	1.00	25.12	6
ATOM	2339	CD2	LEU	B	80	23.360	78.177	90.643	1.00	21.84	6
ATOM	2340	C	LEU	B	80	24.270	74.073	92.079	1.00	69.55	6
ATOM	2341	O	LEU	B	80	24.059	73.241	91.203	1.00	70.67	8
ATOM	2342	N	ASN	B	81	24.917	73.777	93.202	1.00	32.83	7
ATOM	2343	CA	ASN	B	81	25.371	72.416	93.465	1.00	32.74	6



ATOM	2344	CB	ASN	B	81	25.758	72.241	94.927	1.00	53.32	6
ATOM	2345	CG	ASN	B	81	27.021	72.955	95.280	1.00	55.49	6
ATOM	2346	OD1	ASN	B	81	28.101	72.609	94.805	1.00	55.56	8
ATOM	2347	ND2	ASN	B	81	26.902	73.964	96.123	1.00	57.98	7
ATOM	2348	C	ASN	B	81	24.210	71.474	93.185	1.00	32.80	6
ATOM	2349	O	ASN	B	81	24.279	70.598	92.322	1.00	32.36	8
ATOM	2350	N	LEU	B	82	23.142	71.656	93.943	1.00	63.41	7
ATOM	2351	CA	LEU	B	82	21.959	70.843	93.784	1.00	63.31	6
ATOM	2352	CB	LEU	B	82	20.752	71.580	94.373	1.00	53.67	6
ATOM	2353	CG	LEU	B	82	19.575	70.783	94.940	1.00	53.30	6
ATOM	2354	CD1	LEU	B	82	20.075	69.750	95.942	1.00	54.27	6
ATOM	2355	CD2	LEU	B	82	18.611	71.744	95.612	1.00	52.12	6
ATOM	2356	C	LEU	B	82	21.759	70.585	92.293	1.00	63.65	6
ATOM	2357	O	LEU	B	82	21.578	69.447	91.883	1.00	63.99	8
ATOM	2358	N	LYS	B	83	21.827	71.642	91.484	1.00	50.46	7
ATOM	2359	CA	LYS	B	83	21.639	71.525	90.036	1.00	50.43	6
ATOM	2360	CB	LYS	B	83	21.912	72.862	89.345	1.00	61.05	6
ATOM	2361	CG	LYS	B	83	20.787	73.880	89.423	1.00	61.79	6
ATOM	2362	CD	LYS	B	83	21.137	75.141	88.614	1.00	63.49	6
ATOM	2363	CE	LYS	B	83	21.394	74.820	87.123	1.00	65.14	6
ATOM	2364	NZ	LYS	B	83	21.635	76.001	86.224	1.00	64.59	7
ATOM	2365	C	LYS	B	83	22.508	70.445	89.394	1.00	50.69	6
ATOM	2366	O	LYS	B	83	22.093	69.813	88.426	1.00	50.40	8
ATOM	2367	N	GLU	B	84	23.710	70.238	89.922	1.00	72.59	7
ATOM	2368	CA	GLU	B	84	24.602	69.220	89.384	1.00	73.33	6
ATOM	2369	CB	GLU	B	84	26.060	69.599	89.630	1.00	68.79	6
ATOM	2370	CG	GLU	B	84	26.556	70.775	88.821	1.00	68.46	6
ATOM	2371	CD	GLU	B	84	28.062	70.971	88.946	1.00	67.59	6
ATOM	2372	OE1	GLU	B	84	28.553	71.199	90.078	1.00	66.17	8
ATOM	2373	OE2	GLU	B	84	28.754	70.894	87.904	1.00	66.71	8
ATOM	2374	C	GLU	B	84	24.336	67.853	90.009	1.00	74.24	6
ATOM	2375	O	GLU	B	84	25.118	66.920	89.839	1.00	75.23	8
ATOM	2376	N	LEU	B	85	23.236	67.744	90.744	1.00	56.01	7
ATOM	2377	CA	LEU	B	85	22.853	66.495	91.398	1.00	55.89	6
ATOM	2378	CB	LEU	B	85	21.736	66.768	92.400	1.00	82.41	6
ATOM	2379	CG	LEU	B	85	21.185	65.612	93.226	1.00	83.62	6
ATOM	2380	CD1	LEU	B	85	22.252	65.113	94.193	1.00	84.58	6
ATOM	2381	CD2	LEU	B	85	19.956	66.085	93.988	1.00	83.69	6
ATOM	2382	C	LEU	B	85	22.353	65.519	90.346	1.00	56.47	6
ATOM	2383	O	LEU	B	85	21.671	65.932	89.412	1.00	56.46	8
ATOM	2384	N	VAL	B	86	22.686	64.235	90.482	1.00	58.30	7
ATOM	2385	CA	VAL	B	86	22.227	63.229	89.516	1.00	58.92	6
ATOM	2386	CB	VAL	B	86	23.416	62.561	88.752	1.00	28.71	6
ATOM	2387	CG1	VAL	B	86	22.940	62.023	87.403	1.00	28.70	6
ATOM	2388	CG2	VAL	B	86	24.543	63.547	88.545	1.00	26.79	6
ATOM	2389	C	VAL	B	86	21.422	62.141	90.237	1.00	60.35	6
ATOM	2390	O	VAL	B	86	21.984	61.253	90.878	1.00	59.96	8
ATOM	2391	N	VAL	B	87	20.101	62.229	90.135	1.00	51.71	7
ATOM	2392	CA	VAL	B	87	19.212	61.267	90.775	1.00	53.76	6
ATOM	2393	CB	VAL	B	87	17.954	61.954	91.369	1.00	59.83	6
ATOM	2394	CG1	VAL	B	87	17.010	60.920	91.937	1.00	60.81	6
ATOM	2395	CG2	VAL	B	87	18.352	62.914	92.461	1.00	60.06	6
ATOM	2396	C	VAL	B	87	18.753	60.286	89.722	1.00	56.80	6
ATOM	2397	O	VAL	B	87	18.842	60.573	88.532	1.00	56.99	8
ATOM	2398	N	ARG	B	88	18.263	59.133	90.167	1.00	109.23	7
ATOM	2399	CA	ARG	B	88	17.756	58.084	89.282	1.00	111.52	6

ATOM	2400	CB	ARG	B	88	18.820	57.022	89.069	1.00100.13	6
ATOM	2401	CG	ARG	B	88	18.348	55.818	88.316	1.00101.90	6
ATOM	2402	CD	ARG	B	88	19.463	54.818	88.303	1.00103.39	6
ATOM	2403	NE	ARG	B	88	19.096	53.583	87.638	1.00105.95	7
ATOM	2404	CZ	ARG	B	88	19.944	52.583	87.443	1.00107.64	6
ATOM	2405	NH1	ARG	B	88	21.198	52.691	87.869	1.00108.21	7
ATOM	2406	NH2	ARG	B	88	19.543	51.483	86.820	1.00108.48	7
ATOM	2407	C	ARG	B	88	16.541	57.465	89.958	1.00113.37	6
ATOM	2408	O	ARG	B	88	16.484	57.404	91.186	1.00113.54	8
ATOM	2409	N	PHE	B	89	15.578	56.985	89.177	1.00115.12	7
ATOM	2410	CA	PHE	B	89	14.381	56.437	89.796	1.00116.99	6
ATOM	2411	CB	PHE	B	89	13.196	57.380	89.500	1.00 73.14	6
ATOM	2412	CG	PHE	B	89	12.686	57.336	88.074	1.00 73.17	6
ATOM	2413	CD1	PHE	B	89	11.592	58.120	87.704	1.00 73.82	6
ATOM	2414	CD2	PHE	B	89	13.253	56.495	87.120	1.00 73.06	6
ATOM	2415	CE1	PHE	B	89	11.064	58.069	86.418	1.00 73.82	6
ATOM	2416	CE2	PHE	B	89	12.735	56.432	85.827	1.00 73.37	6
ATOM	2417	CZ	PHE	B	89	11.635	57.222	85.476	1.00 73.73	6
ATOM	2418	C	PHE	B	89	14.001	54.976	89.506	1.00119.15	6
ATOM	2419	O	PHE	B	89	12.822	54.619	89.549	1.00119.44	8
ATOM	2420	N	LEU	B	90	14.995	54.128	89.249	1.00130.10	7
ATOM	2421	CA	LEU	B	90	14.734	52.720	88.949	1.00131.31	6
ATOM	2422	CB	LEU	B	90	13.990	52.058	90.108	1.00161.35	6
ATOM	2423	CG	LEU	B	90	14.742	52.079	91.438	1.00162.04	6
ATOM	2424	CD1	LEU	B	90	13.912	51.378	92.491	1.00162.42	6
ATOM	2425	CD2	LEU	B	90	16.090	51.392	91.286	1.00162.37	6
ATOM	2426	C	LEU	B	90	13.906	52.648	87.671	1.00132.86	6
ATOM	2427	O	LEU	B	90	14.464	52.494	86.584	1.00132.98	8
ATOM	2428	N	ASP	B	91	12.582	52.752	87.803	1.00128.55	7
ATOM	2429	CA	ASP	B	91	11.689	52.763	86.638	1.00128.88	6
ATOM	2430	CB	ASP	B	91	12.144	51.738	85.594	1.00154.78	6
ATOM	2431	CG	ASP	B	91	11.860	52.197	84.172	1.00155.70	6
ATOM	2432	OD1	ASP	B	91	10.676	52.416	83.835	1.00155.84	8
ATOM	2433	OD2	ASP	B	91	12.824	52.355	83.390	1.00156.27	8
ATOM	2434	C	ASP	B	91	10.191	52.576	86.878	1.00129.05	6
ATOM	2435	O	ASP	B	91	9.505	51.976	86.055	1.00129.10	8
ATOM	2436	N	PRO	B	92	9.659	53.079	88.004	1.00 52.86	7
ATOM	2437	CD	PRO	B	92	10.297	53.428	89.286	1.00163.39	6
ATOM	2438	CA	PRO	B	92	8.217	52.880	88.180	1.00 52.64	6
ATOM	2439	CB	PRO	B	92	8.073	52.807	89.694	1.00163.65	6
ATOM	2440	CG	PRO	B	92	9.110	53.772	90.155	1.00163.70	6
ATOM	2441	C	PRO	B	92	7.411	54.028	87.566	1.00 52.65	6
ATOM	2442	O	PRO	B	92	7.342	54.172	86.345	1.00 52.29	8
ATOM	2443	N	ARG	B	93	6.794	54.824	88.433	1.00159.93	7
ATOM	2444	CA	ARG	B	93	6.006	55.993	88.051	1.00160.97	6
ATOM	2445	CB	ARG	B	93	4.510	55.665	88.086	1.00102.93	6
ATOM	2446	CG	ARG	B	93	3.589	56.842	87.749	1.00103.89	6
ATOM	2447	CD	ARG	B	93	2.114	56.512	88.042	1.00104.42	6
ATOM	2448	NE	ARG	B	93	1.273	57.709	88.143	1.00103.76	7
ATOM	2449	CZ	ARG	B	93	0.003	57.706	88.545	1.00103.70	6
ATOM	2450	NH1	ARG	B	93	-0.586	56.568	88.885	1.00103.43	7
ATOM	2451	NH2	ARG	B	93	-0.678	58.842	88.616	1.00104.03	7
ATOM	2452	C	ARG	B	93	6.380	56.981	89.155	1.00160.96	6
ATOM	2453	O	ARG	B	93	5.556	57.381	89.974	1.00161.51	8
ATOM	2454	N	TRP	B	94	7.657	57.349	89.151	1.00171.63	7
ATOM	2455	CA	TRP	B	94	8.276	58.230	90.139	1.00170.47	6

ATOM	2456	CB	TRP	B	94	9.763	57.888	90.163	1.00167.50	6
ATOM	2457	CG	TRP	B	94	10.568	58.559	91.201	1.00170.85	6
ATOM	2458	CD2	TRP	B	94	11.423	59.692	91.019	1.00171.98	6
ATOM	2459	CE2	TRP	B	94	12.024	59.963	92.262	1.00173.23	6
ATOM	2460	CE3	TRP	B	94	11.740	60.505	89.922	1.00171.41	6
ATOM	2461	CD1	TRP	B	94	10.676	58.200	92.507	1.00172.08	6
ATOM	2462	NE1	TRP	B	94	11.550	59.036	93.153	1.00173.59	7
ATOM	2463	CZ2	TRP	B	94	12.927	61.013	92.446	1.00174.27	6
ATOM	2464	CZ3	TRP	B	94	12.637	61.549	90.103	1.00172.06	6
ATOM	2465	CH2	TRP	B	94	13.220	61.792	91.356	1.00173.80	6
ATOM	2466	C	TRP	B	94	8.086	59.748	89.972	1.00168.43	6
ATOM	2467	O	TRP	B	94	7.625	60.219	88.929	1.00168.12	8
ATOM	2468	N	ARG	B	95	8.458	60.489	91.022	1.00108.70	7
ATOM	2469	CA	ARG	B	95	8.374	61.957	91.100	1.00105.59	6
ATOM	2470	CB	ARG	B	95	7.074	62.460	90.462	1.00152.49	6
ATOM	2471	CG	ARG	B	95	5.833	61.748	90.970	1.00153.87	6
ATOM	2472	CD	ARG	B	95	4.759	62.732	91.395	1.00154.72	6
ATOM	2473	NE	ARG	B	95	3.626	62.056	92.019	1.00156.37	7
ATOM	2474	CZ	ARG	B	95	2.569	62.682	92.525	1.00157.56	6
ATOM	2475	NH1	ARG	B	95	2.494	64.007	92.483	1.00158.22	7
ATOM	2476	NH2	ARG	B	95	1.586	61.983	93.077	1.00158.25	7
ATOM	2477	C	ARG	B	95	8.405	62.356	92.583	1.00103.14	6
ATOM	2478	O	ARG	B	95	7.460	62.954	93.096	1.00103.69	8
ATOM	2479	N	THR	B	96	9.509	62.045	93.258	1.00 76.25	7
ATOM	2480	CA	THR	B	96	9.641	62.303	94.694	1.00 73.20	6
ATOM	2481	CB	THR	B	96	10.349	61.171	95.379	1.00 62.79	6
ATOM	2482	OG1	THR	B	96	11.738	61.215	95.027	1.00 60.49	8
ATOM	2483	CG2	THR	B	96	9.727	59.850	94.975	1.00 64.35	6
ATOM	2484	C	THR	B	96	10.340	63.545	95.211	1.00 72.96	6
ATOM	2485	O	THR	B	96	10.643	64.476	94.470	1.00 73.64	8
ATOM	2486	N	THR	B	97	10.602	63.512	96.519	1.00 58.24	7
ATOM	2487	CA	THR	B	97	11.256	64.595	97.253	1.00 54.45	6
ATOM	2488	CB	THR	B	97	10.249	65.333	98.180	1.00 57.05	6
ATOM	2489	OG1	THR	B	97	9.224	65.949	97.388	1.00 57.08	8
ATOM	2490	CG2	THR	B	97	10.957	66.393	99.012	1.00 57.27	6
ATOM	2491	C	THR	B	97	12.391	64.041	98.118	1.00 53.16	6
ATOM	2492	O	THR	B	97	12.416	62.857	98.457	1.00 51.75	8
ATOM	2493	N	LEU	B	98	13.321	64.918	98.473	1.00 49.32	7
ATOM	2494	CA	LEU	B	98	14.466	64.560	99.290	1.00 48.21	6
ATOM	2495	CB	LEU	B	98	15.746	64.676	98.468	1.00126.78	6
ATOM	2496	CG	LEU	B	98	15.672	64.157	97.032	1.00128.47	6
ATOM	2497	CD1	LEU	B	98	16.965	64.491	96.312	1.00129.98	6
ATOM	2498									

ATOM	2512	CG	LEU	B	100	20.786	67.238	103.702	1.00	85.11	6
ATOM	2513	CD1	LEU	B	100	20.965	65.792	103.280	1.00	85.38	6
ATOM	2514	CD2	LEU	B	100	21.403	68.169	102.675	1.00	86.72	6
ATOM	2515	C	LEU	B	100	18.701	66.769	106.159	1.00	132.38	6
ATOM	2516	O	LEU	B	100	17.874	67.342	106.870	1.00	132.51	8
ATOM	2517	N	ALA	B	101	19.856	66.285	106.619	1.00	98.92	7
ATOM	2518	CA	ALA	B	101	20.270	66.373	108.022	1.00	99.56	6
ATOM	2519	CB	ALA	B	101	20.205	64.989	108.662	1.00	57.99	6
ATOM	2520	C	ALA	B	101	21.694	66.933	108.119	1.00	100.36	6
ATOM	2521	O	ALA	B	101	22.639	66.340	107.594	1.00	100.49	8
ATOM	2522	N	ALA	B	102	21.852	68.064	108.803	1.00	90.68	7
ATOM	2523	CA	ALA	B	102	23.164	68.691	108.920	1.00	91.70	6
ATOM	2524	CB	ALA	B	102	23.083	70.128	108.424	1.00	114.01	6
ATOM	2525	C	ALA	B	102	23.796	68.656	110.312	1.00	94.60	6
ATOM	2526	O	ALA	B	102	23.135	68.904	111.321	1.00	95.30	8
ATOM	2527	N	ALA	B	103	25.095	68.367	110.342	1.00	107.85	7
ATOM	2528	CA	ALA	B	103	25.858	68.287	111.581	1.00	109.82	6
ATOM	2529	CB	ALA	B	103	26.539	66.929	111.675	1.00	162.25	6
ATOM	2530	C	ALA	B	103	26.900	69.401	111.696	1.00	110.77	6
ATOM	2531	O	ALA	B	103	26.803	70.426	111.027	1.00	111.66	8
ATOM	2532	N	GLY	B	104	27.903	69.183	112.542	1.00	119.02	7
ATOM	2533	CA	GLY	B	104	28.945	70.174	112.756	1.00	117.56	6
ATOM	2534	C	GLY	B	104	29.728	70.570	111.522	1.00	118.84	6
ATOM	2535	O	GLY	B	104	29.191	70.570	110.414	1.00	118.81	8
ATOM	2536	N	PRO	B	105	31.018	70.901	111.685	1.00	112.08	7
ATOM	2537	CD	PRO	B	105	31.762	70.769	112.949	1.00	147.49	6
ATOM	2538	CA	PRO	B	105	31.913	71.313	110.596	1.00	111.87	6
ATOM	2539	CB	PRO	B	105	33.275	71.415	111.290	1.00	147.97	6
ATOM	2540	CG	PRO	B	105	33.148	70.476	112.457	1.00	147.73	6
ATOM	2541	C	PRO	B	105	31.959	70.448	109.326	1.00	112.31	6
ATOM	2542	O	PRO	B	105	32.227	70.955	108.238	1.00	112.30	8
ATOM	2543	N	LYS	B	106	31.690	69.155	109.466	1.00	131.56	7
ATOM	2544	CA	LYS	B	106	31.717	68.219	108.341	1.00	130.72	6
ATOM	2545	CB	LYS	B	106	31.027	66.908	108.742	1.00	199.00	6
ATOM	2546	CG	LYS	B	106	31.550	66.288	110.037	1.00	199.67	6
ATOM	2547	CD	LYS	B	106	33.040	65.977	109.952	1.00	200.50	6
ATOM	2548	CE	LYS	B	106	33.571	65.438	111.273	1.00	201.17	6
ATOM	2549	NZ	LYS	B	106	35.043	65.192	111.248	1.00	201.26	7
ATOM	2550	C	LYS	B	106	31.080	68.750	107.053	1.00	130.11	6
ATOM	2551	O	LYS	B	106	30.3					

ATOM	2568	N	ARG	B	109	27.712	66.286	101.773	1.00	72.39	7
ATOM	2569	CA	ARG	B	109	27.761	65.661	100.462	1.00	71.53	6
ATOM	2570	CB	ARG	B	109	28.515	64.336	100.543	1.00	75.22	6
ATOM	2571	CG	ARG	B	109	29.606	64.308	101.590	1.00	74.93	6
ATOM	2572	CD	ARG	B	109	30.934	63.925	100.968	1.00	74.31	6
ATOM	2573	NE	ARG	B	109	32.020	63.961	101.939	1.00	74.49	7
ATOM	2574	CZ	ARG	B	109	33.268	64.308	101.646	1.00	75.44	6
ATOM	2575	NH1	ARG	B	109	33.589	64.654	100.404	1.00	75.90	7
ATOM	2576	NH2	ARG	B	109	34.193	64.310	102.595	1.00	76.18	7
ATOM	2577	C	ARG	B	109	26.331	65.381	100.012	1.00	71.79	6
ATOM	2578	O	ARG	B	109	25.411	65.321	100.834	1.00	72.18	8
ATOM	2579	N	ALA	B	110	26.137	65.199	98.712	1.00	60.56	7
ATOM	2580	CA	ALA	B	110	24.809	64.890	98.204	1.00	60.62	6
ATOM	2581	CB	ALA	B	110	24.823	64.883	96.680	1.00	116.89	6
ATOM	2582	C	ALA	B	110	24.408	63.511	98.745	1.00	60.99	6
ATOM	2583	O	ALA	B	110	23.337	62.990	98.436	1.00	60.39	8
ATOM	2584	N	VAL	B	111	25.287	62.928	99.556	1.00	115.68	7
ATOM	2585	CA	VAL	B	111	25.054	61.617	100.152	1.00	116.53	6
ATOM	2586	CB	VAL	B	111	26.381	60.972	100.638	1.00	171.54	6
ATOM	2587	CG1	VAL	B	111	26.136	59.533	101.086	1.00	171.02	6
ATOM	2588	CG2	VAL	B	111	27.422	61.017	99.534	1.00	172.39	6
ATOM	2589	C	VAL	B	111	24.117	61.739	101.348	1.00	116.52	6
ATOM	2590	O	VAL	B	111	23.121	61.021	101.446	1.00	116.08	8
ATOM	2591	N	ASP	B	112	24.446	62.653	102.257	1.00	93.32	7
ATOM	2592	CA	ASP	B	112	23.649	62.875	103.458	1.00	93.72	6
ATOM	2593	CB	ASP	B	112	23.949	64.258	104.039	1.00	208.87	6
ATOM	2594	CG	ASP	B	112	25.386	64.397	104.498	1.00	208.87	6
ATOM	2595	OD1	ASP	B	112	25.746	65.487	104.988	1.00	208.87	8
ATOM	2596	OD2	ASP	B	112	26.154	63.420	104.374	1.00	208.87	8
ATOM	2597	C	ASP	B	112	22.161	62.754	103.174	1.00	93.88	6
ATOM	2598	O	ASP	B	112	21.403	62.243	104.000	1.00	93.49	8
ATOM	2599	N	PHE	B	113	21.754	63.223	101.997	1.00	140.32	7
ATOM	2600	CA	PHE	B	113	20.357	63.175	101.587	1.00	139.27	6
ATOM	2601	CB	PHE	B	113	20.239	63.102	100.059	1.00	88.94	6
ATOM	2602	CG	PHE	B	113	20.398	64.431	99.369	1.00	88.94	6
ATOM	2603	CD1	PHE	B	113	21.643	65.049	99.284	1.00	89.09	6
ATOM	2604	CD2	PHE	B	113	19.295	65.069	98.804	1.00	88.14	6
ATOM	2605	CE1	PHE	B	113	21.792	66.285	98.645	1.00	89.50	6
ATOM	2606	CE2	PHE	B	113	19.429	66.305	98.164	1.00	88.22	6
ATOM	2607	CZ	PHE	B	113	20.685	66.915	98.084	1		

ATOM	2624	N	SER	B	116	16.683	57.677	100.884	1.00146.16	7
ATOM	2625	CA	SER	B	116	15.444	57.059	100.444	1.00146.33	6
ATOM	2626	CB	SER	B	116	14.477	58.129	99.921	1.00 82.24	6
ATOM	2627	OG	SER	B	116	13.264	57.556	99.459	1.00 80.53	8
ATOM	2628	C	SER	B	116	15.770	56.058	99.341	1.00147.50	6
ATOM	2629	O	SER	B	116	16.562	56.347	98.442	1.00147.96	8
ATOM	2630	N	ALA	B	117	15.175	54.873	99.423	1.00154.86	7
ATOM	2631	CA	ALA	B	117	15.407	53.841	98.422	1.00154.61	6
ATOM	2632	CB	ALA	B	117	14.884	52.505	98.920	1.00152.66	6
ATOM	2633	C	ALA	B	117	14.695	54.240	97.141	1.00155.24	6
ATOM	2634	O	ALA	B	117	14.167	55.347	97.042	1.00155.74	8
ATOM	2635	N	ASP	B	118	14.688	53.339	96.166	1.00 88.55	7
ATOM	2636	CA	ASP	B	118	14.037	53.588	94.887	1.00 88.64	6
ATOM	2637	CB	ASP	B	118	12.510	53.457	95.026	1.00118.28	6
ATOM	2638	CG	ASP	B	118	11.902	54.515	95.930	1.00119.07	6
ATOM	2639	OD1	ASP	B	118	11.985	54.381	97.170	1.00119.87	8
ATOM	2640	OD2	ASP	B	118	11.341	55.489	95.389	1.00119.11	8
ATOM	2641	C	ASP	B	118	14.385	54.950	94.293	1.00 88.12	6
ATOM	2642	O	ASP	B	118	13.772	55.391	93.323	1.00 87.96	8
ATOM	2643	N	VAL	B	119	15.382	55.603	94.882	1.00 77.20	7
ATOM	2644	CA	VAL	B	119	15.845	56.922	94.460	1.00 77.42	6
ATOM	2645	CB	VAL	B	119	14.940	58.045	95.043	1.00 51.81	6
ATOM	2646	CG1	VAL	B	119	15.413	59.407	94.585	1.00 51.41	6
ATOM	2647	CG2	VAL	B	119	13.512	57.829	94.616	1.00 51.98	6
ATOM	2648	C	VAL	B	119	17.258	57.079	95.018	1.00 77.32	6
ATOM	2649	O	VAL	B	119	17.451	57.666	96.085	1.00 77.65	8
ATOM	2650	N	GLU	B	120	18.244	56.535	94.314	1.00142.78	7
ATOM	2651	CA	GLU	B	120	19.624	56.634	94.775	1.00142.83	6
ATOM	2652	CB	GLU	B	120	20.325	55.271	94.669	1.00114.74	6
ATOM	2653	CG	GLU	B	120	21.680	55.207	95.375	1.00115.85	6
ATOM	2654	CD	GLU	B	120	22.377	53.868	95.205	1.00117.05	6
ATOM	2655	OE1	GLU	B	120	22.751	53.520	94.063	1.00117.57	8
ATOM	2656	OE2	GLU	B	120	22.546	53.160	96.217	1.00117.15	8
ATOM	2657	C	GLU	B	120	20.398	57.684	93.979	1.00143.11	6
ATOM	2658	O	GLU	B	120	20.442	57.645	92.746	1.00143.41	8
ATOM	2659	N	ILE	B	121	20.991	58.631	94.699	1.00 89.19	7
ATOM	2660	CA	ILE	B	121	21.776	59.686	94.083	1.00 87.07	6
ATOM	2661	CB	ILE	B	121	22.254	60.715	95.143	1.00137.58	6
ATOM	2662	CG2	ILE	B	121	23.420	61.516	94.608	1.00138.22	6
ATOM	2663	CG1	ILE	B	121	21.112	61.665	95.515	1.00137.41	6
ATOM	2664	CD1	ILE	B	121	19.941	61.000	96.191	1.00137.99	6
ATOM	2665	C	ILE	B	121	22.980	59.075	93.365	1.00 86.78	6
ATOM	2666	O	ILE	B	121	23.945	58.627	93.996	1.00 85.86	8
ATOM	2667	N	MET	B	122	22.883	59.058	92.037	1.00 88.09	7
ATOM	2668	CA	MET	B	122	23.902	58.529	91.131	1.00 86.88	6
ATOM	2669	CB	MET	B	122	23.585	58.993	89.709	1.00 98.50	6
ATOM	2670	CG	MET	B	122	23.708	57.940	88.638	1.00100.12	6
ATOM	2671	SD	MET	B	122	22.126	57.147	88.335	1.00102.51	16
ATOM	2672	CE	MET	B	122	22.120	55.932	89.664	1.00103.27	6
ATOM	2673	C	MET	B	122	25.310	59.009	91.489	1.00 86.12	6
ATOM	2674	O	MET	B	122	26.288	58.265	91.379	1.00 86.13	8
ATOM	2675	N	ASN	B	123	25.383	60.273	91.896	1.00102.30	7
ATOM	2676	CA	ASN	B	123	26.628	60.944	92.259	1.00100.44	6
ATOM	2677	CB	ASN	B	123	26.719	62.251	91.479	1.00 44.03	6
ATOM	2678	CG	ASN	B	123	25.395	62.996	91.442	1.00 43.06	6
ATOM	2679	OD1	ASN	B	123	24.329	62.407	91.626	1.00 41.66	8

ATOM	2680	ND2	ASN	B	123	25.457	64.299	91.184	1.00	42.20	7
ATOM	2681	C	ASN	B	123	26.728	61.212	93.763	1.00	100.01	6
ATOM	2682	O	ASN	B	123	26.158	62.172	94.278	1.00	100.97	8
ATOM	2683	N	PRO	B	124	27.492	60.375	94.479	1.00	40.54	7
ATOM	2684	CD	PRO	B	124	28.486	59.467	93.880	1.00	130.63	6
ATOM	2685	CA	PRO	B	124	27.699	60.466	95.923	1.00	38.86	6
ATOM	2686	CB	PRO	B	124	28.775	59.419	96.181	1.00	129.78	6
ATOM	2687	CG	PRO	B	124	29.578	59.461	94.923	1.00	130.60	6
ATOM	2688	C	PRO	B	124	28.124	61.831	96.413	1.00	38.04	6
ATOM	2689	O	PRO	B	124	27.353	62.534	97.059	1.00	37.31	8
ATOM	2690	N	ASP	B	125	29.361	62.191	96.100	1.00	96.40	7
ATOM	2691	CA	ASP	B	125	29.952	63.453	96.517	1.00	97.07	6
ATOM	2692	CB	ASP	B	125	31.336	63.556	95.900	1.00	90.27	6
ATOM	2693	CG	ASP	B	125	32.054	62.228	95.911	1.00	89.52	6
ATOM	2694	OD1	ASP	B	125	32.136	61.608	96.992	1.00	88.48	8
ATOM	2695	OD2	ASP	B	125	32.526	61.797	94.841	1.00	90.20	8
ATOM	2696	C	ASP	B	125	29.129	64.698	96.201	1.00	97.77	6
ATOM	2697	O	ASP	B	125	27.976	64.809	96.623	1.00	98.95	8
ATOM	2698	N	LEU	B	126	29.725	65.640	95.473	1.00	65.34	7
ATOM	2699	CA	LEU	B	126	29.038	66.882	95.114	1.00	64.52	6
ATOM	2700	CB	LEU	B	126	27.659	66.584	94.511	1.00	106.19	6
ATOM	2701	CG	LEU	B	126	26.828	67.776	94.031	1.00	106.27	6
ATOM	2702	CD1	LEU	B	126	27.577	68.543	92.956	1.00	106.51	6
ATOM	2703	CD2	LEU	B	126	25.506	67.274	93.489	1.00	106.74	6
ATOM	2704	C	LEU	B	126	28.884	67.736	96.363	1.00	64.64	6
ATOM	2705	O	LEU	B	126	27.928	67.584	97.121	1.00	65.05	8
ATOM	2706	N	HIS	B	127	29.831	68.641	96.558	1.00	66.42	7
ATOM	2707	CA	HIS	B	127	29.862	69.514	97.719	1.00	65.85	6
ATOM	2708	CB	HIS	B	127	30.625	70.790	97.376	1.00	101.20	6
ATOM	2709	CG	HIS	B	127	31.028	71.577	98.579	1.00	103.06	6
ATOM	2710	CD2	HIS	B	127	32.243	71.799	99.130	1.00	104.05	6
ATOM	2711	ND1	HIS	B	127	30.111	72.177	99.413	1.00	103.81	7
ATOM	2712	CE1	HIS	B	127	30.746	72.732	100.429	1.00	103.99	6
ATOM	2713	NE2	HIS	B	127	32.040	72.517	100.282	1.00	104.05	7
ATOM	2714	C	HIS	B	127	28.545	69.893	98.417	1.00	66.02	6
ATOM	2715	O	HIS	B	127	28.417	69.719	99.633	1.00	65.62	8
ATOM	2716	N	ILE	B	128	27.581	70.421	97.666	1.00	79.55	7
ATOM	2717	CA	ILE	B	128	26.292	70.848	98.230	1.00	79.18	6
ATOM	2718	CB	ILE	B	128	25.625	69.750	99.095	1.00	63.78	6
ATOM	2719	CG2	ILE	B	128	24.424	70.340	99.820	1.00	62.99	

ATOM	2736	N	LEU	B	131	29.293	73.503	106.312	1.00126.03	7
ATOM	2737	CA	LEU	B	131	28.801	74.154	107.525	1.00127.64	6
ATOM	2738	CB	LEU	B	131	27.337	73.735	107.756	1.00 64.76	6
ATOM	2739	CG	LEU	B	131	26.947	72.261	107.965	1.00 64.71	6
ATOM	2740	CD1	LEU	B	131	25.510	72.063	107.494	1.00 64.74	6
ATOM	2741	CD2	LEU	B	131	27.878	71.331	107.197	1.00 65.16	6
ATOM	2742	C	LEU	B	131	29.693	73.740	108.704	1.00129.43	6
ATOM	2743	O	LEU	B	131	30.266	72.653	108.677	1.00128.82	8
ATOM	2744	N	GLU	B	132	29.822	74.586	109.729	1.00 97.60	7
ATOM	2745	CA	GLU	B	132	30.684	74.235	110.861	1.00 99.00	6
ATOM	2746	CB	GLU	B	132	31.951	75.105	110.828	1.00134.43	6
ATOM	2747	CG	GLU	B	132	33.013	74.695	111.847	1.00136.66	6
ATOM	2748	CD	GLU	B	132	34.383	75.287	111.558	1.00137.83	6
ATOM	2749	OE1	GLU	B	132	34.957	74.968	110.494	1.00137.78	8
ATOM	2750	OE2	GLU	B	132	34.884	76.069	112.394	1.00138.17	8
ATOM	2751	C	GLU	B	132	30.079	74.236	112.284	1.00 99.83	6
ATOM	2752	O	GLU	B	132	29.306	73.337	112.638	1.00 99.70	8
ATOM	2753	N	GLU	B	133	30.453	75.226	113.099	1.00 95.71	7
ATOM	2754	CA	GLU	B	133	29.981	75.354	114.488	1.00 95.88	6
ATOM	2755	CB	GLU	B	133	30.861	76.365	115.246	1.00 81.48	6
ATOM	2756	CG	GLU	B	133	30.730	76.360	116.784	1.00 82.68	6
ATOM	2757	CD	GLU	B	133	31.455	77.541	117.459	1.00 82.94	6
ATOM	2758	OE1	GLU	B	133	30.925	78.675	117.431	1.00 83.01	8
ATOM	2759	OE2	GLU	B	133	32.561	77.340	118.011	1.00 81.98	8
ATOM	2760	C	GLU	B	133	28.519	75.797	114.553	1.00 96.07	6
ATOM	2761	O	GLU	B	133	28.080	76.390	115.537	1.00 95.61	8
ATOM	2762	N	GLY	B	134	27.776	75.505	113.491	1.00119.75	7
ATOM	2763	CA	GLY	B	134	26.371	75.863	113.416	1.00119.61	6
ATOM	2764	C	GLY	B	134	25.701	74.923	112.436	1.00120.73	6
ATOM	2765	O	GLY	B	134	25.064	75.351	111.471	1.00120.38	8
ATOM	2766	N	GLY	B	135	25.865	73.629	112.703	1.00112.87	7
ATOM	2767	CA	GLY	B	135	25.314	72.589	111.853	1.00112.15	6
ATOM	2768	C	GLY	B	135	23.805	72.511	111.756	1.00112.82	6
ATOM	2769	O	GLY	B	135	23.200	71.521	112.175	1.00113.01	8
ATOM	2770	N	LYS	B	136	23.203	73.555	111.191	1.00208.87	7
ATOM	2771	CA	LYS	B	136	21.757	73.613	111.015	1.00208.87	6
ATOM	2772	CB	LYS	B	136	21.260	75.057	111.134	1.00117.57	6
ATOM	2773	CG	LYS	B	136	19.750	75.165	111.274	1.00118.63	6
ATOM	2774	CD	LYS	B	136	19.347	76.462	111.953	1.00119.24	6
ATOM	2775	CE	LYS	B	136	17.892	76.431	112.384	1.00118.87	6
ATOM	2776	NZ	LYS	B	136	17.576	77.595	113.252	1.00118.88	7
ATOM	2777	C	LYS	B	136	21.410	73.054	109.641	1.00208.87	6
ATOM	2778	O	LYS	B	136	21.233	71.847	109.488	1.00208.87	8
ATOM	2779	N	LEU	B	137	21.312	73.935	108.650	1.00 75.67	7
ATOM	2780	CA	LEU	B	137	21.010	73.521	107.281	1.00 72.95	6
ATOM	2781	CB	LEU	B	137	22.300	73.140	106.549	1.00114.50	6
ATOM	2782	CG	LEU	B	137	22.145	72.433	105.196	1.00114.45	6
ATOM	2783	CD1	LEU	B	137	21.497	73.373	104.185	1.00114.64	6
ATOM	2784	CD2	LEU	B	137	23.512	71.969	104.707	1.00114.47	6
ATOM	2785	C	LEU	B	137	20.047	72.353	107.172	1.00 72.27	6
ATOM	2786	O	LEU	B	137	20.452	71.195	107.264	1.00 71.68	8
ATOM	2787	N	TYR	B	138	18.774	72.660	106.979	1.00 99.33	7
ATOM	2788	CA	TYR	B	138	17.782	71.615	106.813	1.00 98.44	6
ATOM	2789	CB	TYR	B	138	16.705	71.682	107.883	1.00101.24	6
ATOM	2790	CG	TYR	B	138	15.626	70.644	107.666	1.00103.67	6
ATOM	2791	CD1	TYR	B	138	15.901	69.283	107.810	1.00105.20	6



ATOM	2792	CE1	TYR	B	138	14.911	68.321	107.586	1.00105.71	6	
ATOM	2793	CD2	TYR	B	138	14.331	71.020	107.291	1.00104.41	6	
ATOM	2794	CE2	TYR	B	138	13.334	70.065	107.063	1.00104.53	6	
ATOM	2795	CZ	TYR	B	138	13.632	68.720	107.213	1.00105.23	6	
ATOM	2796	OH	TYR	B	138	12.654	67.781	106.988	1.00105.25	8	
ATOM	2797	C	TYR	B	138	17.140	71.823	105.461	1.00	97.46	6
ATOM	2798	O	TYR	B	138	16.706	72.930	105.141	1.00	98.49	8
ATOM	2799	N	MET	B	139	17.071	70.760	104.668	1.00	55.68	7
ATOM	2800	CA	MET	B	139	16.488	70.870	103.343	1.00	53.23	6
ATOM	2801	CB	MET	B	139	17.575	70.922	102.276	1.00	45.97	6
ATOM	2802	CG	MET	B	139	18.504	72.111	102.319	1.00	43.14	6
ATOM	2803	SD	MET	B	139	19.493	72.042	100.831	1.00	40.08	16
ATOM	2804	CE	MET	B	139	20.758	70.861	101.301	1.00	38.50	6
ATOM	2805	C	MET	B	139	15.573	69.719	103.008	1.00	53.66	6
ATOM	2806	O	MET	B	139	15.803	68.589	103.416	1.00	53.85	8
ATOM	2807	N	GLU	B	140	14.538	70.027	102.242	1.00	57.95	7
ATOM	2808	CA	GLU	B	140	13.577	69.038	101.801	1.00	57.39	6
ATOM	2809	CB	GLU	B	140	12.251	69.169	102.554	1.00	79.51	6
ATOM	2810	CG	GLU	B	140	12.344	69.115	104.062	1.00	80.34	6
ATOM	2811	CD	GLU	B	140	10.978	69.016	104.705	1.00	81.16	6
ATOM	2812	OE1	GLU	B	140	10.080	69.809	104.340	1.00	81.49	8
ATOM	2813	OE2	GLU	B	140	10.800	68.144	105.578	1.00	80.96	8
ATOM	2814	C	GLU	B	140	13.351	69.381	100.345	1.00	57.83	6
ATOM	2815	O	GLU	B	140	12.263	69.808	99.966	1.00	58.17	8
ATOM	2816	N	VAL	B	141	14.389	69.218	99.535	1.00	69.25	7
ATOM	2817	CA	VAL	B	141	14.301	69.528	98.111	1.00	68.04	6
ATOM	2818	CB	VAL	B	141	15.729	69.592	97.478	1.00	52.16	6
ATOM	2819	CG1	VAL	B	141	16.380	68.213	97.492	1.00	52.26	6
ATOM	2820	CG2	VAL	B	141	15.657	70.129	96.069	1.00	52.61	6
ATOM	2821	C	VAL	B	141	13.435	68.510	97.352	1.00	68.81	6
ATOM	2822	O	VAL	B	141	13.279	67.368	97.781	1.00	68.33	8
ATOM	2823	N	ARG	B	142	12.849	68.947	96.242	1.00	88.90	7
ATOM	2824	CA	ARG	B	142	12.028	68.076	95.412	1.00	89.77	6
ATOM	2825	CB	ARG	B	142	10.783	68.817	94.911	1.00	81.59	6
ATOM	2826	CG	ARG	B	142	10.014	68.064	93.832	1.00	85.37	6
ATOM	2827	CD	ARG	B	142	8.820	68.839	93.298	1.00	88.90	6
ATOM	2828	NE	ARG	B	142	8.096	68.065	92.287	1.00	92.35	7
ATOM	2829	CZ	ARG	B	142	6.875	68.355	91.835	1.00	93.50	6
ATOM	2830	NH1	ARG	B	142	6.214	69.409	92.298	1.00	93.60	7
ATOM	2831	NH2	ARG	B	142	6.312	67.588	90.910	1.00	94.27	7

ATOM	2848	O	ASP	B	144	12.858	64.501	87.448	1.00	85.87	8
ATOM	2849	N	ARG	B	145	10.694	64.491	86.843	1.00	81.25	7
ATOM	2850	CA	ARG	B	145	10.897	63.752	85.606	1.00	81.48	6
ATOM	2851	CB	ARG	B	145	9.883	62.598	85.526	1.00	116.67	6
ATOM	2852	CG	ARG	B	145	10.197	61.495	84.513	1.00	121.00	6
ATOM	2853	CD	ARG	B	145	9.541	61.742	83.154	1.00	124.57	6
ATOM	2854	NE	ARG	B	145	9.884	60.704	82.178	1.00	127.18	7
ATOM	2855	CZ	ARG	B	145	9.427	60.664	80.929	1.00	128.14	6
ATOM	2856	NH1	ARG	B	145	8.598	61.604	80.485	1.00	127.70	7
ATOM	2857	NH2	ARG	B	145	9.800	59.682	80.119	1.00	128.38	7
ATOM	2858	C	ARG	B	145	10.633	64.790	84.517	1.00	80.76	6
ATOM	2859	O	ARG	B	145	9.554	65.390	84.488	1.00	81.40	8
ATOM	2860	N	GLY	B	146	11.611	65.015	83.636	1.00	59.75	7
ATOM	2861	CA	GLY	B	146	11.434	66.010	82.586	1.00	58.12	6
ATOM	2862	C	GLY	B	146	11.790	65.634	81.154	1.00	57.76	6
ATOM	2863	O	GLY	B	146	12.133	64.484	80.855	1.00	57.87	8
ATOM	2864	N	VAL	B	147	11.711	66.630	80.271	1.00	55.35	7
ATOM	2865	CA	VAL	B	147	11.991	66.453	78.849	1.00	54.41	6
ATOM	2866	CB	VAL	B	147	10.865	67.038	77.992	1.00	80.10	6
ATOM	2867	CG1	VAL	B	147	9.570	66.311	78.277	1.00	81.12	6
ATOM	2868	CG2	VAL	B	147	10.715	68.523	78.281	1.00	81.16	6
ATOM	2869	C	VAL	B	147	13.293	67.083	78.369	1.00	53.79	6
ATOM	2870	O	VAL	B	147	14.112	66.411	77.744	1.00	54.45	8
ATOM	2871	N	GLY	B	148	13.477	68.373	78.635	1.00	56.94	7
ATOM	2872	CA	GLY	B	148	14.690	69.041	78.202	1.00	56.02	6
ATOM	2873	C	GLY	B	148	15.307	69.932	79.266	1.00	55.80	6
ATOM	2874	O	GLY	B	148	16.032	69.462	80.152	1.00	55.58	8
ATOM	2875	N	TYR	B	149	15.024	71.229	79.163	1.00	62.76	7
ATOM	2876	CA	TYR	B	149	15.519	72.225	80.109	1.00	61.67	6
ATOM	2877	CB	TYR	B	149	16.755	72.942	79.544	1.00	47.58	6
ATOM	2878	CG	TYR	B	149	17.298	74.030	80.448	1.00	44.27	6
ATOM	2879	CD1	TYR	B	149	18.358	73.778	81.314	1.00	43.41	6
ATOM	2880	CE1	TYR	B	149	18.818	74.761	82.198	1.00	42.32	6
ATOM	2881	CD2	TYR	B	149	16.710	75.302	80.480	1.00	42.67	6
ATOM	2882	CE2	TYR	B	149	17.159	76.292	81.360	1.00	41.68	6
ATOM	2883	CZ	TYR	B	149	18.212	76.010	82.219	1.00	42.28	6
ATOM	2884	OH	TYR	B	149	18.644	76.950	83.128	1.00	41.87	8
ATOM	2885	C	TYR	B	149	14.405	73.240	80.331	1.00	63.16	6
ATOM	2886	O	TYR	B	149	13.682	73.576	79.398	1.00	63.11	8
ATOM	2887	N	VAL	B	150	14.255	73.716	81.563	1.00	82.04	7
ATOM	2888	CA	VAL	B	150	13.236	74.716	81.863	1.00	83.70	6
ATOM	2889	CB	VAL	B	150	11.893	74.089	82.226	1.00	46.67	6
ATOM	2890	CG1	VAL	B	150	10.820	74.625	81.293	1.00	46.16	6
ATOM	2891	CG2	VAL	B	150	11.979	72.589	82.146	1.00	46.53	6
ATOM	2892	C	VAL	B	150	13.656	75.634	82.997	1.00	86.08	6
ATOM	2893	O	VAL	B	150	14.025	75.186	84.079	1.00	85.92	8
ATOM	2894	N	PRO	B	151	13.597	76.946	82.756	1.00	71.11	7
ATOM	2895	CD	PRO	B	151	13.161	77.521	81.472	1.00	58.08	6
ATOM	2896	CA	PRO	B	151	13.962	77.999	83.708	1.00	73.95	6
ATOM	2897	CB	PRO	B	151	13.869	79.267	82.854	1.00	60.58	6
ATOM	2898	CG	PRO	B	151	12.799	78.926	81.856	1.00	59.02	6
ATOM	2899	C	PRO	B	151	13.101	78.078	84.972	1.00	76.59	6
ATOM	2900	O	PRO	B	151	12.677	77.055	85.511	1.00	76.74	8
ATOM	2901	N	ALA	B	152	12.883	79.308	85.444	1.00	39.27	7
ATOM	2902	CA	ALA	B	152	12.057	79.598	86.616	1.00	42.47	6
ATOM	2903	CB	ALA	B	152	12.676	80.736	87.413	1.00	107.83	6

ATOM	2904	C	ALA	B	152	10.635	79.979	86.157	1.00	44.62	6
ATOM	2905	O	ALA	B	152	10.154	81.093	86.386	1.00	44.85	8
ATOM	2906	N	GLU	B	153	9.974	79.035	85.497	1.00	173.69	7
ATOM	2907	CA	GLU	B	153	8.624	79.258	85.006	1.00	177.64	6
ATOM	2908	CB	GLU	B	153	8.640	79.422	83.487	1.00	172.29	6
ATOM	2909	CG	GLU	B	153	7.300	79.820	82.895	1.00	175.51	6
ATOM	2910	CD	GLU	B	153	6.805	81.159	83.414	1.00	177.58	6
ATOM	2911	OE1	GLU	B	153	7.539	82.160	83.272	1.00	179.18	8
ATOM	2912	OE2	GLU	B	153	5.681	81.214	83.959	1.00	179.05	8
ATOM	2913	C	GLU	B	153	7.711	78.100	85.399	1.00	179.79	6
ATOM	2914	O	GLU	B	153	6.486	78.190	85.286	1.00	180.54	8
ATOM	2915	N	ARG	B	154	8.313	77.010	85.863	1.00	116.41	7
ATOM	2916	CA	ARG	B	154	7.545	75.852	86.283	1.00	117.36	6
ATOM	2917	CB	ARG	B	154	8.356	74.572	86.077	1.00	160.53	6
ATOM	2918	CG	ARG	B	154	8.513	74.185	84.614	1.00	164.64	6
ATOM	2919	CD	ARG	B	154	7.156	73.958	83.940	1.00	168.10	6
ATOM	2920	NE	ARG	B	154	7.294	73.684	82.509	1.00	170.66	7
ATOM	2921	CZ	ARG	B	154	6.284	73.387	81.698	1.00	171.03	6
ATOM	2922	NH1	ARG	B	154	5.046	73.321	82.168	1.00	171.38	7
ATOM	2923	NH2	ARG	B	154	6.513	73.154	80.412	1.00	171.09	7
ATOM	2924	C	ARG	B	154	7.129	75.992	87.738	1.00	116.81	6
ATOM	2925	O	ARG	B	154	6.332	75.204	88.240	1.00	117.13	8
ATOM	2926	N	HIS	B	155	7.678	76.997	88.413	1.00	55.66	7
ATOM	2927	CA	HIS	B	155	7.348	77.274	89.818	1.00	55.25	6
ATOM	2928	CB	HIS	B	155	5.966	77.938	89.894	1.00	208.87	6
ATOM	2929	CG	HIS	B	155	5.783	79.078	88.934	1.00	208.87	6
ATOM	2930	CD2	HIS	B	155	6.633	79.645	88.044	1.00	208.87	6
ATOM	2931	ND1	HIS	B	155	4.588	79.753	88.801	1.00	208.87	7
ATOM	2932	CE1	HIS	B	155	4.708	80.682	87.870	1.00	208.87	6
ATOM	2933	NE2	HIS	B	155	5.939	80.638	87.394	1.00	208.87	7
ATOM	2934	C	HIS	B	155	7.390	76.045	90.758	1.00	53.61	6
ATOM	2935	O	HIS	B	155	6.705	75.033	90.546	1.00	52.58	8
ATOM	2936	N	GLY	B	156	8.191	76.165	91.815	1.00	77.00	7
ATOM	2937	CA	GLY	B	156	8.347	75.084	92.773	1.00	75.17	6
ATOM	2938	C	GLY	B	156	7.224	74.924	93.780	1.00	74.46	6
ATOM	2939	O	GLY	B	156	7.414	75.133	94.983	1.00	73.94	8
ATOM	2940	N	ILE	B	157	6.056	74.540	93.273	1.00	110.69	7
ATOM	2941	CA	ILE	B	157	4.861	74.317	94.081	1.00	109.94	6
ATOM	2942	CB	ILE	B	157	3.890	73.375	93.328	1.00	96.64	6
ATOM	2943	CG2	ILE	B	157	2.576	73.271	94.066	1.00	97.13	6
ATOM	2944										

ATOM	2960	CG	ASP	B	159	7.617	73.852	102.174	1.00	76.09	6
ATOM	2961	OD1	ASP	B	159	6.953	73.253	103.054	1.00	76.19	8
ATOM	2962	OD2	ASP	B	159	8.307	74.871	102.412	1.00	76.49	8
ATOM	2963	C	ASP	B	159	5.546	74.624	100.102	1.00	68.26	6
ATOM	2964	O	ASP	B	159	6.104	75.593	100.612	1.00	67.90	8
ATOM	2965	N	ARG	B	160	4.365	74.697	99.492	1.00	91.05	7
ATOM	2966	CA	ARG	B	160	3.605	75.932	99.333	1.00	91.10	6
ATOM	2967	CB	ARG	B	160	2.606	76.097	100.489	1.00	196.98	6
ATOM	2968	CG	ARG	B	160	1.425	77.020	100.169	1.00	199.78	6
ATOM	2969	CD	ARG	B	160	0.318	76.898	101.215	1.00	201.81	6
ATOM	2970	NE	ARG	B	160	-0.931	77.522	100.779	1.00	202.57	7
ATOM	2971	CZ	ARG	B	160	-2.067	77.484	101.471	1.00	202.64	6
ATOM	2972	NH1	ARG	B	160	-2.119	76.853	102.637	1.00	203.08	7
ATOM	2973	NH2	ARG	B	160	-3.156	78.074	100.997	1.00	202.29	7
ATOM	2974	C	ARG	B	160	4.508	77.156	99.235	1.00	90.17	6
ATOM	2975	O	ARG	B	160	4.862	77.576	98.131	1.00	90.77	8
ATOM	2976	N	ILE	B	161	4.881	77.714	100.388	1.00	111.41	7
ATOM	2977	CA	ILE	B	161	5.742	78.897	100.453	1.00	108.90	6
ATOM	2978	CB	ILE	B	161	5.186	79.910	101.467	1.00	155.30	6
ATOM	2979	CG2	ILE	B	161	5.920	81.240	101.329	1.00	155.26	6
ATOM	2980	CG1	ILE	B	161	3.689	80.101	101.221	1.00	156.01	6
ATOM	2981	CD1	ILE	B	161	2.979	80.897	102.286	1.00	157.04	6
ATOM	2982	C	ILE	B	161	7.184	78.537	100.831	1.00	106.94	6
ATOM	2983	O	ILE	B	161	7.423	77.547	101.521	1.00	106.37	8
ATOM	2984	N	ASN	B	162	8.131	79.360	100.381	1.00	157.69	7
ATOM	2985	CA	ASN	B	162	9.562	79.144	100.613	1.00	155.50	6
ATOM	2986	CB	ASN	B	162	9.848	78.754	102.065	1.00	120.56	6
ATOM	2987	CG	ASN	B	162	9.259	79.725	103.054	1.00	120.85	6
ATOM	2988	OD1	ASN	B	162	9.299	80.936	102.847	1.00	120.63	8
ATOM	2989	ND2	ASN	B	162	8.715	79.201	104.148	1.00	121.34	7
ATOM	2990	C	ASN	B	162	9.993	78.014	99.692	1.00	154.09	6
ATOM	2991	O	ASN	B	162	10.002	76.847	100.086	1.00	154.31	8
ATOM	2992	N	ALA	B	163	10.354	78.364	98.463	1.00	77.76	7
ATOM	2993	CA	ALA	B	163	10.735	77.354	97.496	1.00	74.56	6
ATOM	2994	CB	ALA	B	163	9.571	77.121	96.541	1.00	55.98	6
ATOM	2995	C	ALA	B	163	12.007	77.639	96.703	1.00	72.69	6
ATOM	2996	O	ALA	B	163	12.746	76.715	96.355	1.00	73.43	8
ATOM	2997	N	ILE	B	164	12.274	78.904	96.410	1.00	59.09	7
ATOM	2998	CA	ILE	B	164	13.459	79.242	95.626	1.00	57.08	6
ATOM	2999	CB	ILE	B	164	14.715	79.360	96.542	1.00	43.29	6

ATOM	3016	CG2	VAL	B	166	16.088	73.698	91.955	1.00	37.18	6
ATOM	3017	C	VAL	B	166	15.295	75.691	89.452	1.00	53.14	6
ATOM	3018	O	VAL	B	166	14.093	75.552	89.214	1.00	52.50	8
ATOM	3019	N	ASP	B	167	16.228	75.648	88.507	1.00	51.01	7
ATOM	3020	CA	ASP	B	167	15.860	75.429	87.116	1.00	51.58	6
ATOM	3021	CB	ASP	B	167	16.843	76.149	86.193	1.00	56.28	6
ATOM	3022	CG	ASP	B	167	16.933	77.631	86.490	1.00	56.37	6
ATOM	3023	OD1	ASP	B	167	15.857	78.266	86.604	1.00	56.07	8
ATOM	3024	OD2	ASP	B	167	18.067	78.157	86.608	1.00	55.57	8
ATOM	3025	C	ASP	B	167	15.785	73.942	86.771	1.00	52.93	6
ATOM	3026	O	ASP	B	167	16.523	73.117	87.316	1.00	54.06	8
ATOM	3027	N	ALA	B	168	14.880	73.612	85.860	1.00	70.74	7
ATOM	3028	CA	ALA	B	168	14.660	72.237	85.446	1.00	72.04	6
ATOM	3029	CB	ALA	B	168	13.238	72.089	84.963	1.00	93.07	6
ATOM	3030	C	ALA	B	168	15.621	71.764	84.368	1.00	73.25	6
ATOM	3031	O	ALA	B	168	15.318	71.848	83.176	1.00	74.88	8
ATOM	3032	N	ILE	B	169	16.774	71.254	84.784	1.00	40.64	7
ATOM	3033	CA	ILE	B	169	17.757	70.769	83.832	1.00	41.50	6
ATOM	3034	CB	ILE	B	169	19.213	71.068	84.313	1.00	98.30	6
ATOM	3035	CG2	ILE	B	169	19.539	72.525	84.130	1.00	97.49	6
ATOM	3036	CG1	ILE	B	169	19.381	70.705	85.793	1.00	100.66	6
ATOM	3037	CD1	ILE	B	169	19.738	69.249	86.070	1.00	102.42	6
ATOM	3038	C	ILE	B	169	17.619	69.273	83.586	1.00	41.74	6
ATOM	3039	O	ILE	B	169	18.592	68.532	83.729	1.00	42.04	8
ATOM	3040	N	PHE	B	170	16.432	68.802	83.211	1.00	42.29	7
ATOM	3041	CA	PHE	B	170	16.317	67.361	82.977	1.00	43.20	6
ATOM	3042	CB	PHE	B	170	15.013	66.777	83.538	1.00	61.40	6
ATOM	3043	CG	PHE	B	170	13.954	67.786	83.836	1.00	63.03	6
ATOM	3044	CD1	PHE	B	170	13.399	68.556	82.827	1.00	63.24	6
ATOM	3045	CD2	PHE	B	170	13.438	67.889	85.124	1.00	63.04	6
ATOM	3046	CE1	PHE	B	170	12.338	69.403	83.094	1.00	62.61	6
ATOM	3047	CE2	PHE	B	170	12.381	68.732	85.398	1.00	62.50	6
ATOM	3048	CZ	PHE	B	170	11.827	69.489	84.379	1.00	62.13	6
ATOM	3049	C	PHE	B	170	16.502	66.878	81.545	1.00	42.83	6
ATOM	3050	O	PHE	B	170	15.619	67.031	80.700	1.00	42.08	8
ATOM	3051	N	SER	B	171	17.672	66.276	81.318	1.00	58.08	7
ATOM	3052	CA	SER	B	171	18.105	65.721	80.035	1.00	57.84	6
ATOM	3053	CB	SER	B	171	18.167	66.810	78.959	1.00	64.81	6
ATOM	3054	OG	SER	B	171	16.915	67.437	78.764	1.00	66.33	8
ATOM	3055	C	SER	B	171	19.519	65.173	80.243	1.00	58.17	6
ATOM	3056	O	SER	B	171	20.482	65.929	80.186	1.00	58.94	8
ATOM	3057	N	PRO	B	172	19.663	63.858	80.480	1.00	62.96	7
ATOM	3058	CD	PRO	B	172	18.555	62.888	80.478	1.00	125.39	6
ATOM	3059	CA	PRO	B	172	20.948	63.178	80.702	1.00	62.05	6
ATOM	3060	CB	PRO	B	172	20.586	61.714	80.509	1.00	124.61	6
ATOM	3061	CG	PRO	B	172	19.206	61.658	81.068	1.00	125.56	6
ATOM	3062	C	PRO	B	172	22.105	63.621	79.791	1.00	62.13	6
ATOM	3063	O	PRO	B	172	23.274	63.464	80.141	1.00	62.81	8
ATOM	3064	N	VAL	B	173	21.774	64.151	78.617	1.00	50.25	7
ATOM	3065	CA	VAL	B	173	22.775	64.643	77.679	1.00	49.25	6
ATOM	3066	CB	VAL	B	173	22.246	64.633	76.232	1.00	47.86	6
ATOM	3067	CG1	VAL	B	173	21.865	63.242	75.819	1.00	46.05	6
ATOM	3068	CG2	VAL	B	173	21.033	65.531	76.123	1.00	48.20	6
ATOM	3069	C	VAL	B	173	22.992	66.093	78.087	1.00	50.28	6
ATOM	3070	O	VAL	B	173	22.022	66.787	78.407	1.00	50.57	8
ATOM	3071	N	ARG	B	174	24.238	66.565	78.080	1.00	46.53	7

ATOM	3072	CA	ARG	B	174	24.500	67.957	78.459	1.00	45.95	6
ATOM	3073	CB	ARG	B	174	25.016	68.000	79.903	1.00	76.44	6
ATOM	3074	CG	ARG	B	174	23.959	67.598	80.932	1.00	76.70	6
ATOM	3075	CD	ARG	B	174	24.453	67.729	82.365	1.00	77.00	6
ATOM	3076	NE	ARG	B	174	23.374	67.503	83.323	1.00	77.86	7
ATOM	3077	CZ	ARG	B	174	23.543	67.416	84.639	1.00	78.64	6
ATOM	3078	NH1	ARG	B	174	24.754	67.535	85.169	1.00	79.52	7
ATOM	3079	NH2	ARG	B	174	22.497	67.208	85.429	1.00	78.53	7
ATOM	3080	C	ARG	B	174	25.447	68.725	77.531	1.00	45.02	6
ATOM	3081	O	ARG	B	174	26.133	69.643	77.966	1.00	45.18	8
ATOM	3082	N	ARG	B	175	25.449	68.359	76.251	1.00	30.81	7
ATOM	3083	CA	ARG	B	175	26.307	68.974	75.232	1.00	30.24	6
ATOM	3084	CB	ARG	B	175	27.705	69.252	75.796	1.00	56.73	6
ATOM	3085	CG	ARG	B	175	28.609	69.963	74.814	1.00	58.11	6
ATOM	3086	CD	ARG	B	175	30.066	69.866	75.184	1.00	58.93	6
ATOM	3087	NE	ARG	B	175	30.879	70.341	74.074	1.00	60.67	7
ATOM	3088	CZ	ARG	B	175	32.160	70.044	73.914	1.00	61.35	6
ATOM	3089	NH1	ARG	B	175	32.771	69.274	74.800	1.00	62.34	7
ATOM	3090	NH2	ARG	B	175	32.821	70.495	72.859	1.00	61.62	7
ATOM	3091	C	ARG	B	175	26.434	68.025	74.030	1.00	29.61	6
ATOM	3092	O	ARG	B	175	26.804	66.867	74.174	1.00	28.19	8
ATOM	3093	N	VAL	B	176	26.163	68.521	72.837	1.00	43.00	7
ATOM	3094	CA	VAL	B	176	26.209	67.663	71.674	1.00	42.87	6
ATOM	3095	CB	VAL	B	176	24.779	67.226	71.310	1.00	59.69	6
ATOM	3096	CG1	VAL	B	176	24.808	66.209	70.197	1.00	61.48	6
ATOM	3097	CG2	VAL	B	176	24.080	66.679	72.535	1.00	59.65	6
ATOM	3098	C	VAL	B	176	26.838	68.321	70.450	1.00	43.44	6
ATOM	3099	O	VAL	B	176	26.225	69.206	69.832	1.00	43.32	8
ATOM	3100	N	ALA	B	177	28.047	67.883	70.093	1.00	43.93	7
ATOM	3101	CA	ALA	B	177	28.750	68.414	68.917	1.00	44.13	6
ATOM	3102	CB	ALA	B	177	30.096	69.001	69.326	1.00	84.37	6
ATOM	3103	C	ALA	B	177	28.946	67.333	67.846	1.00	43.58	6
ATOM	3104	O	ALA	B	177	28.846	66.139	68.127	1.00	43.19	8
ATOM	3105	N	PHE	B	178	29.236	67.754	66.618	1.00	16.23	7
ATOM	3106	CA	PHE	B	178	29.413	66.806	65.523	1.00	17.34	6
ATOM	3107	CB	PHE	B	178	28.079	66.114	65.248	1.00	28.38	6
ATOM	3108	CG	PHE	B	178	27.105	66.970	64.492	1.00	26.31	6
ATOM	3109	CD1	PHE	B	178	27.007	66.878	63.110	1.00	25.18	6
ATOM	3110	CD2	PHE	B	178	26.323	67.910	65.151	1.00	24.98	6
ATOM	3111	CE1	PHE	B	178	26.145	67.713	62.393	1.00	23.37	6
ATOM	3112	CE2	PHE	B	178	25.458	68.754	64.434	1.00	23.56	6
ATOM	3113	CZ	PHE	B	178	25.370	68.653	63.057	1.00	22.91	6
ATOM	3114	C	PHE	B	178	29.912	67.458	64.227	1.00	18.91	6
ATOM	3115	O	PHE	B	178	29.345	68.451	63.769	1.00	17.56	8
ATOM	3116	N	GLN	B	179	30.963	66.908	63.625	1.00	62.17	7
ATOM	3117	CA	GLN	B	179	31.449	67.473	62.369	1.00	65.93	6
ATOM	3118	CB	GLN	B	179	32.773	68.234	62.560	1.00	80.10	6
ATOM	3119	CG	GLN	B	179	33.982	67.411	62.962	1.00	81.43	6
ATOM	3120	CD	GLN	B	179	35.287	68.139	62.658	1.00	82.38	6
ATOM	3121	OE1	GLN	B	179	35.333	69.371	62.650	1.00	82.70	8
ATOM	3122	NE2	GLN	B	179	36.355	67.379	62.417	1.00	81.97	7
ATOM	3123	C	GLN	B	179	31.606	66.428	61.282	1.00	66.88	6
ATOM	3124	O	GLN	B	179	32.281	65.425	61.468	1.00	67.65	8
ATOM	3125	N	VAL	B	180	30.979	66.674	60.140	1.00	30.90	7
ATOM	3126	CA	VAL	B	180	31.039	65.738	59.032	1.00	33.56	6
ATOM	3127	CB	VAL	B	180	29.649	65.640	58.339	1.00	68.73	6

ATOM	3128	CG1	VAL	B	180	29.190	67.013	57.885	1.00	69.38	6
ATOM	3129	CG2	VAL	B	180	29.706	64.663	57.172	1.00	69.19	6
ATOM	3130	C	VAL	B	180	32.127	66.030	57.990	1.00	35.36	6
ATOM	3131	O	VAL	B	180	31.912	66.779	57.033	1.00	35.29	8
ATOM	3132	N	GLU	B	181	33.296	65.428	58.168	1.00	62.66	7
ATOM	3133	CA	GLU	B	181	34.383	65.627	57.219	1.00	65.99	6
ATOM	3134	CB	GLU	B	181	35.724	65.329	57.896	1.00	120.88	6
ATOM	3135	CG	GLU	B	181	36.953	65.566	57.025	1.00	123.47	6
ATOM	3136	CD	GLU	B	181	38.245	65.511	57.823	1.00	124.36	6
ATOM	3137	OE1	GLU	B	181	38.399	64.565	58.628	1.00	123.76	8
ATOM	3138	OE2	GLU	B	181	39.108	66.402	57.644	1.00	125.31	8
ATOM	3139	C	GLU	B	181	34.175	64.714	56.004	1.00	67.27	6
ATOM	3140	O	GLU	B	181	33.316	63.842	56.019	1.00	68.13	8
ATOM	3141	N	ASP	B	182	34.943	64.921	54.945	1.00	43.73	7
ATOM	3142	CA	ASP	B	182	34.808	64.091	53.763	1.00	45.68	6
ATOM	3143	CB	ASP	B	182	35.001	64.914	52.486	1.00	97.05	6
ATOM	3144	CG	ASP	B	182	34.684	66.383	52.677	1.00	98.74	6
ATOM	3145	OD1	ASP	B	182	33.808	66.704	53.506	1.00	100.74	8
ATOM	3146	OD2	ASP	B	182	35.302	67.218	51.983	1.00	97.37	8
ATOM	3147	C	ASP	B	182	35.875	63.008	53.816	1.00	47.05	6
ATOM	3148	O	ASP	B	182	36.967	63.237	54.333	1.00	47.61	8
ATOM	3149	N	THR	B	183	35.548	61.832	53.285	1.00	51.94	7
ATOM	3150	CA	THR	B	183	36.461	60.686	53.225	1.00	53.53	6
ATOM	3151	CB	THR	B	183	36.225	59.684	54.366	1.00	71.65	6
ATOM	3152	OG1	THR	B	183	34.860	59.248	54.340	1.00	71.78	8
ATOM	3153	CG2	THR	B	183	36.547	60.318	55.704	1.00	72.82	6
ATOM	3154	C	THR	B	183	36.140	59.993	51.922	1.00	54.41	6
ATOM	3155	O	THR	B	183	34.991	60.012	51.479	1.00	54.35	8
ATOM	3156	N	ALA	B	184	37.137	59.360	51.319	1.00	129.81	7
ATOM	3157	CA	ALA	B	184	36.918	58.709	50.042	1.00	131.82	6
ATOM	3158	CB	ALA	B	184	37.776	59.367	48.990	1.00	58.25	6
ATOM	3159	C	ALA	B	184	37.140	57.215	49.991	1.00	133.33	6
ATOM	3160	O	ALA	B	184	37.857	56.745	49.109	1.00	134.76	8
ATOM	3161	N	LEU	B	185	36.553	56.454	50.911	1.00	148.14	7
ATOM	3162	CA	LEU	B	185	36.730	55.008	50.835	1.00	148.94	6
ATOM	3163	CB	LEU	B	185	35.855	54.272	51.850	1.00	94.82	6
ATOM	3164	CG	LEU	B	185	36.328	54.260	53.306	1.00	94.69	6
ATOM	3165	CD1	LEU	B	185	35.483	53.256	54.075	1.00	94.46	6
ATOM	3166	CD2	LEU	B	185	37.801	53.882	53.387	1.00	93.85	6
ATOM	3167	C	LEU	B	185	36.304	54.652	49.419	1.00	149.86	

ATOM	3184	CB	ARG	B	188	33.412	59.298	44.738	1.00138.62	6
ATOM	3185	CG	ARG	B	188	32.820	60.676	44.639	1.00139.12	6
ATOM	3186	CD	ARG	B	188	31.322	60.625	44.855	1.00139.80	6
ATOM	3187	NE	ARG	B	188	30.722	61.944	44.704	1.00141.03	7
ATOM	3188	CZ	ARG	B	188	29.450	62.221	44.971	1.00141.96	6
ATOM	3189	NH1	ARG	B	188	28.639	61.266	45.409	1.00143.04	7
ATOM	3190	NH2	ARG	B	188	28.989	63.454	44.800	1.00141.62	7
ATOM	3191	C	ARG	B	188	35.491	59.892	45.985	1.00 80.56	6
ATOM	3192	O	ARG	B	188	35.553	59.236	47.024	1.00 81.23	8
ATOM	3193	N	THR	B	189	35.878	61.161	45.915	1.00 77.04	7
ATOM	3194	CA	THR	B	189	36.477	61.828	47.067	1.00 74.63	6
ATOM	3195	CB	THR	B	189	37.717	62.551	46.638	1.00 59.96	6
ATOM	3196	OG1	THR	B	189	37.354	63.515	45.645	1.00 60.93	8
ATOM	3197	CG2	THR	B	189	38.713	61.575	46.050	1.00 59.93	6
ATOM	3198	C	THR	B	189	35.638	62.826	47.854	1.00 71.92	6
ATOM	3199	O	THR	B	189	36.171	63.526	48.716	1.00 72.50	8
ATOM	3200	N	ASP	B	190	34.341	62.905	47.576	1.00 63.78	7
ATOM	3201	CA	ASP	B	190	33.491	63.841	48.297	1.00 61.55	6
ATOM	3202	CB	ASP	B	190	32.921	64.882	47.330	1.00 77.28	6
ATOM	3203	CG	ASP	B	190	32.553	64.292	45.994	1.00 78.99	6
ATOM	3204	OD1	ASP	B	190	33.453	63.761	45.309	1.00 79.32	8
ATOM	3205	OD2	ASP	B	190	31.365	64.365	45.625	1.00 80.25	8
ATOM	3206	C	ASP	B	190	32.366	63.199	49.099	1.00 58.55	6
ATOM	3207	O	ASP	B	190	31.262	63.725	49.159	1.00 59.65	8
ATOM	3208	N	LEU	B	191	32.649	62.076	49.741	1.00 74.59	7
ATOM	3209	CA	LEU	B	191	31.628	61.417	50.530	1.00 71.86	6
ATOM	3210	CB	LEU	B	191	31.870	59.915	50.490	1.00 39.25	6
ATOM	3211	CG	LEU	B	191	31.700	59.458	49.027	1.00 38.40	6
ATOM	3212	CD1	LEU	B	191	32.178	58.033	48.832	1.00 37.17	6
ATOM	3213	CD2	LEU	B	191	30.238	59.588	48.622	1.00 37.38	6
ATOM	3214	C	LEU	B	191	31.610	61.981	51.953	1.00 70.45	6
ATOM	3215	O	LEU	B	191	32.562	62.647	52.357	1.00 72.17	8
ATOM	3216	N	ASP	B	192	30.523	61.740	52.696	1.00 39.62	7
ATOM	3217	CA	ASP	B	192	30.354	62.265	54.068	1.00 36.40	6
ATOM	3218	CB	ASP	B	192	28.898	62.701	54.282	1.00 78.82	6
ATOM	3219	CG	ASP	B	192	28.578	64.025	53.601	1.00 79.38	6
ATOM	3220	OD1	ASP	B	192	29.164	64.299	52.532	1.00 79.92	8
ATOM	3221	OD2	ASP	B	192	27.735	64.783	54.131	1.00 79.32	8
ATOM	3222	C	ASP	B	192	30.773	61.330	55.199	1.00 32.27	6
ATOM	3223	O	ASP	B	192	30.658	60.115	55.081	1.00 31.34	8
ATOM	3224	N	LYS	B	193	31.248	61.917	56.294	1.00 21.17	7
ATOM	3225	CA	LYS	B	193	31.718	61.163	57.450	1.00 18.63	6
ATOM	3226	CB	LYS	B	193	33.241	61.060	57.446	1.00 54.65	6
ATOM	3227	CG	LYS	B	193	33.820	60.353	58.652	1.00 55.49	6
ATOM	3228	CD	LYS	B	193	34.597	59.149	58.199	1.00 58.46	6
ATOM	3229	CE	LYS	B	193	35.959	59.038	58.888	1.00 60.61	6
ATOM	3230	NZ	LYS	B	193	36.881	58.045	58.209	1.00 62.12	7
ATOM	3231	C	LYS	B	193	31.264	61.796	58.757	1.00 16.86	6
ATOM	3232	O	LYS	B	193	32.071	62.340	59.534	1.00 15.25	8
ATOM	3233	N	LEU	B	194	29.960	61.671	58.985	1.00 56.76	7
ATOM	3234	CA	LEU	B	194	29.248	62.189	60.146	1.00 54.94	6
ATOM	3235	CB	LEU	B	194	28.004	61.332	60.376	1.00 26.43	6
ATOM	3236	CG	LEU	B	194	26.860	61.933	61.191	1.00 23.96	6
ATOM	3237	CD1	LEU	B	194	26.960	61.449	62.612	1.00 23.82	6
ATOM	3238	CD2	LEU	B	194	26.879	63.450	61.118	1.00 22.05	6
ATOM	3239	C	LEU	B	194	29.995	62.384	61.468	1.00 54.76	6



ATOM	3240	O	LEU	B	194	30.366	63.506	61.799	1.00	55.92	8
ATOM	3241	N	THR	B	195	30.211	61.316	62.227	1.00	24.80	7
ATOM	3242	CA	THR	B	195	30.885	61.427	63.529	1.00	24.82	6
ATOM	3243	CB	THR	B	195	32.305	62.008	63.430	1.00	13.87	6
ATOM	3244	OG1	THR	B	195	33.111	61.165	62.607	1.00	13.87	8
ATOM	3245	CG2	THR	B	195	32.929	62.113	64.826	1.00	13.87	6
ATOM	3246	C	THR	B	195	30.127	62.323	64.513	1.00	27.11	6
ATOM	3247	O	THR	B	195	29.933	63.510	64.266	1.00	27.79	8
ATOM	3248	N	LEU	B	196	29.710	61.748	65.634	1.00	83.35	7
ATOM	3249	CA	LEU	B	196	28.987	62.491	66.655	1.00	85.23	6
ATOM	3250	CB	LEU	B	196	27.600	61.889	66.865	1.00	37.74	6
ATOM	3251	CG	LEU	B	196	26.427	62.775	66.443	1.00	37.19	6
ATOM	3252	CD1	LEU	B	196	26.607	63.276	65.031	1.00	35.58	6
ATOM	3253	CD2	LEU	B	196	25.156	61.986	66.537	1.00	38.11	6
ATOM	3254	C	LEU	B	196	29.779	62.409	67.941	1.00	88.34	6
ATOM	3255	O	LEU	B	196	30.801	61.729	67.998	1.00	90.29	8
ATOM	3256	N	ARG	B	197	29.316	63.111	68.968	1.00	85.67	7
ATOM	3257	CA	ARG	B	197	29.977	63.095	70.267	1.00	87.64	6
ATOM	3258	CB	ARG	B	197	31.277	63.895	70.208	1.00	65.93	6
ATOM	3259	CG	ARG	B	197	31.185	65.241	69.531	1.00	68.55	6
ATOM	3260	CD	ARG	B	197	32.584	65.793	69.339	1.00	73.98	6
ATOM	3261	NE	ARG	B	197	32.618	67.245	69.442	1.00	77.56	7
ATOM	3262	CZ	ARG	B	197	33.720	67.948	69.682	1.00	79.42	6
ATOM	3263	NH1	ARG	B	197	34.881	67.328	69.841	1.00	81.24	7
ATOM	3264	NH2	ARG	B	197	33.659	69.269	69.778	1.00	79.66	7
ATOM	3265	C	ARG	B	197	29.020	63.642	71.314	1.00	89.08	6
ATOM	3266	O	ARG	B	197	28.980	64.840	71.597	1.00	90.63	8
ATOM	3267	N	ILE	B	198	28.251	62.718	71.880	1.00	28.99	7
ATOM	3268	CA	ILE	B	198	27.217	63.003	72.861	1.00	29.28	6
ATOM	3269	CB	ILE	B	198	26.045	61.980	72.665	1.00	51.66	6
ATOM	3270	CG2	ILE	B	198	25.714	61.278	73.933	1.00	52.32	6
ATOM	3271	CG1	ILE	B	198	24.805	62.683	72.114	1.00	52.64	6
ATOM	3272	CD1	ILE	B	198	24.873	63.007	70.646	1.00	55.60	6
ATOM	3273	C	ILE	B	198	27.731	63.000	74.299	1.00	30.75	6
ATOM	3274	O	ILE	B	198	28.034	61.955	74.852	1.00	30.87	8
ATOM	3275	N	TRP	B	199	27.847	64.179	74.901	1.00	48.14	7
ATOM	3276	CA	TRP	B	199	28.312	64.280	76.282	1.00	50.03	6
ATOM	3277	CB	TRP	B	199	29.041	65.602	76.544	1.00	51.23	6
ATOM	3278	CG	TRP	B	199	30.115	65.946	75.560	1.00	52.27	6
ATOM	3279	CD2	TRP	B	199	31.525	65.840	75.762	1.00	52.01	6

ATOM	3296	N	ASP	B	201	25.522	62.810	81.189	1.00	43.75	7
ATOM	3297	CA	ASP	B	201	25.759	62.247	82.514	1.00	44.52	6
ATOM	3298	CB	ASP	B	201	27.101	62.721	83.083	1.00	82.69	6
ATOM	3299	CG	ASP	B	201	27.651	61.776	84.145	1.00	84.02	6
ATOM	3300	OD1	ASP	B	201	26.866	61.333	85.011	1.00	85.42	8
ATOM	3301	OD2	ASP	B	201	28.868	61.480	84.120	1.00	84.72	8
ATOM	3302	C	ASP	B	201	24.615	62.631	83.446	1.00	44.46	6
ATOM	3303	O	ASP	B	201	24.623	62.293	84.631	1.00	44.19	8
ATOM	3304	N	GLY	B	202	23.624	63.329	82.898	1.00	75.55	7
ATOM	3305	CA	GLY	B	202	22.477	63.706	83.692	1.00	75.47	6
ATOM	3306	C	GLY	B	202	21.719	62.453	84.110	1.00	76.50	6
ATOM	3307	O	GLY	B	202	20.547	62.549	84.483	1.00	77.97	8
ATOM	3308	N	SER	B	203	22.392	61.292	84.035	1.00	55.59	7
ATOM	3309	CA	SER	B	203	21.867	59.957	84.392	1.00	54.17	6
ATOM	3310	CB	SER	B	203	20.356	59.993	84.676	1.00	91.62	6
ATOM	3311	OG	SER	B	203	19.605	60.381	83.538	1.00	90.27	8
ATOM	3312	C	SER	B	203	22.136	58.886	83.325	1.00	52.93	6
ATOM	3313	O	SER	B	203	23.059	58.092	83.461	1.00	53.08	8
ATOM	3314	N	VAL	B	204	21.309	58.875	82.277	1.00	69.60	7
ATOM	3315	CA	VAL	B	204	21.390	57.927	81.154	1.00	68.03	6
ATOM	3316	CB	VAL	B	204	20.338	58.242	80.108	1.00	35.10	6
ATOM	3317	CG1	VAL	B	204	20.400	57.231	78.991	1.00	34.10	6
ATOM	3318	CG2	VAL	B	204	18.985	58.275	80.746	1.00	34.56	6
ATOM	3319	C	VAL	B	204	22.709	57.931	80.407	1.00	67.75	6
ATOM	3320	O	VAL	B	204	23.357	58.962	80.309	1.00	69.06	8
ATOM	3321	N	THR	B	205	23.082	56.793	79.829	1.00	49.09	7
ATOM	3322	CA	THR	B	205	24.340	56.711	79.093	1.00	48.85	6
ATOM	3323	CB	THR	B	205	24.767	55.263	78.850	1.00	77.86	6
ATOM	3324	OG1	THR	B	205	24.007	54.721	77.768	1.00	79.05	8
ATOM	3325	CG2	THR	B	205	24.542	54.429	80.092	1.00	78.88	6
ATOM	3326	C	THR	B	205	24.225	57.400	77.737	1.00	49.21	6
ATOM	3327	O	THR	B	205	23.131	57.794	77.327	1.00	49.54	8
ATOM	3328	N	PRO	B	206	25.361	57.556	77.023	1.00	46.13	7
ATOM	3329	CD	PRO	B	206	26.729	57.238	77.468	1.00	48.07	6
ATOM	3330	CA	PRO	B	206	25.402	58.200	75.707	1.00	45.85	6
ATOM	3331	CB	PRO	B	206	26.904	58.299	75.415	1.00	48.63	6
ATOM	3332	CG	PRO	B	206	27.534	58.294	76.752	1.00	48.13	6
ATOM	3333	C	PRO	B	206	24.674	57.407	74.626	1.00	47.15	6
ATOM	3334	O	PRO	B	206	23.585	57.780	74.189	1.00	46.48	8
ATOM	3335	N	LEU	B	207	25.304	56.318	74.191	1.00	76.94	7
ATOM	3336	CA	LEU	B	207	24.746	55.460	73.155	1.00	77.75	6
ATOM	3337	CB	LEU	B	207	25.444	54.099	73.169	1.00	101.16	6
ATOM	3338	CG	LEU	B	207	25.120	53.141	72.022	1.00	101.47	6
ATOM	3339	CD1	LEU	B	207	25.360	53.807	70.671	1.00	101.74	6
ATOM	3340	CD2	LEU	B	207	25.988	51.910	72.173	1.00	101.71	6
ATOM	3341	C	LEU	B	207	23.252	55.303	73.390	1.00	78.54	6
ATOM	3342	O	LEU	B	207	22.470	55.176	72.446	1.00	78.25	8
ATOM	3343	N	GLU	B	208	22.864	55.323	74.660	1.00	60.01	7
ATOM	3344	CA	GLU	B	208	21.461	55.218	75.023	1.00	61.02	6
ATOM	3345	CB	GLU	B	208	21.302	55.117	76.546	1.00	128.03	6
ATOM	3346	CG	GLU	B	208	21.543	53.714	77.097	1.00	131.02	6
ATOM	3347	CD	GLU	B	208	21.287	53.608	78.591	1.00	133.34	6
ATOM	3348	OE1	GLU	B	208	20.215	54.062	79.041	1.00	134.35	8
ATOM	3349	OE2	GLU	B	208	22.149	53.060	79.315	1.00	134.47	8
ATOM	3350	C	GLU	B	208	20.742	56.458	74.497	1.00	60.26	6
ATOM	3351	O	GLU	B	208	19.750	56.360	73.769	1.00	58.68	8

ATOM	3352	N	ALA	B	209	21.249	57.625	74.865	1.00	65.53	7
ATOM	3353	CA	ALA	B	209	20.653	58.857	74.402	1.00	65.98	6
ATOM	3354	CB	ALA	B	209	21.552	60.033	74.735	1.00	16.71	6
ATOM	3355	C	ALA	B	209	20.453	58.740	72.891	1.00	66.92	6
ATOM	3356	O	ALA	B	209	19.319	58.605	72.431	1.00	67.52	8
ATOM	3357	N	LEU	B	210	21.543	58.756	72.123	1.00	73.15	7
ATOM	3358	CA	LEU	B	210	21.443	58.668	70.662	1.00	73.45	6
ATOM	3359	CB	LEU	B	210	22.777	58.207	70.051	1.00	36.69	6
ATOM	3360	CG	LEU	B	210	22.693	57.718	68.591	1.00	36.68	6
ATOM	3361	CD1	LEU	B	210	22.266	58.832	67.646	1.00	36.19	6
ATOM	3362	CD2	LEU	B	210	24.030	57.169	68.179	1.00	37.72	6
ATOM	3363	C	LEU	B	210	20.312	57.752	70.178	1.00	73.95	6
ATOM	3364	O	LEU	B	210	19.323	58.223	69.611	1.00	73.49	8
ATOM	3365	N	ASN	B	211	20.464	56.450	70.414	1.00	95.72	7
ATOM	3366	CA	ASN	B	211	19.475	55.452	70.005	1.00	94.91	6
ATOM	3367	CB	ASN	B	211	19.789	54.099	70.646	1.00	47.61	6
ATOM	3368	CG	ASN	B	211	20.941	53.388	69.969	1.00	48.99	6
ATOM	3369	OD1	ASN	B	211	20.855	53.047	68.782	1.00	49.54	8
ATOM	3370	ND2	ASN	B	211	22.025	53.156	70.711	1.00	49.80	7
ATOM	3371	C	ASN	B	211	18.065	55.862	70.378	1.00	94.05	6
ATOM	3372	O	ASN	B	211	17.183	55.935	69.524	1.00	94.10	8
ATOM	3373	N	GLN	B	212	17.863	56.119	71.666	1.00	48.75	7
ATOM	3374	CA	GLN	B	212	16.566	56.525	72.181	1.00	47.49	6
ATOM	3375	CB	GLN	B	212	16.712	56.943	73.643	1.00	74.54	6
ATOM	3376	CG	GLN	B	212	15.407	57.083	74.394	1.00	76.74	6
ATOM	3377	CD	GLN	B	212	15.620	57.235	75.889	1.00	78.20	6
ATOM	3378	OE1	GLN	B	212	16.241	56.384	76.535	1.00	79.21	8
ATOM	3379	NE2	GLN	B	212	15.099	58.318	76.450	1.00	78.87	7
ATOM	3380	C	GLN	B	212	16.011	57.678	71.342	1.00	46.38	6
ATOM	3381	O	GLN	B	212	14.860	57.645	70.908	1.00	46.06	8
ATOM	3382	N	ALA	B	213	16.840	58.690	71.104	1.00	58.18	7
ATOM	3383	CA	ALA	B	213	16.434	59.836	70.304	1.00	56.70	6
ATOM	3384	CB	ALA	B	213	17.506	60.900	70.344	1.00	101.95	6
ATOM	3385	C	ALA	B	213	16.183	59.399	68.870	1.00	56.54	6
ATOM	3386	O	ALA	B	213	15.253	59.886	68.229	1.00	56.71	8
ATOM	3387	N	VAL	B	214	17.020	58.478	68.380	1.00	57.27	7
ATOM	3388	CA	VAL	B	214	16.911	57.937	67.015	1.00	55.99	6
ATOM	3389	CB	VAL	B	214	17.914	56.784	66.758	1.00	38.97	6
ATOM	3390	CG1	VAL	B	214	17.831	56.354	65.291	1.00	40.50	6
ATOM	3391	CG2	VAL	B	214	19.336	57.210	67.130	1.00	39.20	6
ATOM	3392	C	VAL	B	214	15.519	57.359	66.847	1.00	55.21	6
ATOM	3393	O	VAL	B	214	14.976	57.258	65.748	1.00	54.40	8
ATOM	3394	N	ALA	B	215	14.963	56.955	67.972	1.00	35.62	7
ATOM	3395	CA	ALA	B	215	13.641	56.403	68.008	1.00	34.92	6
ATOM	3396	CB	ALA	B	215	13.494	55.553	69.237	1.00	13.87	6
ATOM	3397	C	ALA	B	215	12.692	57.581	68.064	1.00	34.79	6
ATOM	3398	O	ALA	B	215	11.673	57.605	67.394	1.00	35.53	8
ATOM	3399	N	ILE	B	216	13.051	58.568	68.873	1.00	37.58	7
ATOM	3400	CA	ILE	B	216	12.229	59.760	69.043	1.00	38.65	6
ATOM	3401	CB	ILE	B	216	12.945	60.781	69.947	1.00	58.19	6
ATOM	3402	CG2	ILE	B	216	11.991	61.919	70.298	1.00	59.13	6
ATOM	3403	CG1	ILE	B	216	13.441	60.079	71.212	1.00	57.58	6
ATOM	3404	CD1	ILE	B	216	14.218	60.959	72.142	1.00	58.61	6
ATOM	3405	C	ILE	B	216	11.891	60.414	67.699	1.00	39.48	6
ATOM	3406	O	ILE	B	216	10.762	60.881	67.482	1.00	38.93	8
ATOM	3407	N	LEU	B	217	12.877	60.446	66.806	1.00	55.28	7

ATOM	3408	CA	LEU	B	217	12.700	61.025	65.481	1.00	56.43	6
ATOM	3409	CB	LEU	B	217	14.066	61.305	64.855	1.00	34.79	6
ATOM	3410	CG	LEU	B	217	14.067	61.729	63.387	1.00	34.72	6
ATOM	3411	CD1	LEU	B	217	13.484	63.118	63.280	1.00	33.77	6
ATOM	3412	CD2	LEU	B	217	15.478	61.688	62.826	1.00	33.56	6
ATOM	3413	C	LEU	B	217	11.915	60.041	64.606	1.00	58.48	6
ATOM	3414	O	LEU	B	217	10.955	60.420	63.931	1.00	58.68	8
ATOM	3415	N	LYS	B	218	12.340	58.775	64.635	1.00	79.73	7
ATOM	3416	CA	LYS	B	218	11.715	57.689	63.875	1.00	80.04	6
ATOM	3417	CB	LYS	B	218	12.239	56.347	64.384	1.00	60.98	6
ATOM	3418	CG	LYS	B	218	13.069	55.534	63.410	1.00	61.97	6
ATOM	3419	CD	LYS	B	218	13.516	54.221	64.104	1.00	64.17	6
ATOM	3420	CE	LYS	B	218	14.311	53.257	63.198	1.00	65.47	6
ATOM	3421	NZ	LYS	B	218	14.927	52.116	63.964	1.00	65.03	7
ATOM	3422	C	LYS	B	218	10.191	57.722	64.026	1.00	81.14	6
ATOM	3423	O	LYS	B	218	9.468	57.840	63.040	1.00	81.66	8
ATOM	3424	N	GLU	B	219	9.720	57.609	65.268	1.00	75.84	7
ATOM	3425	CA	GLU	B	219	8.295	57.626	65.579	1.00	77.32	6
ATOM	3426	CB	GLU	B	219	8.078	57.631	67.092	1.00	140.14	6
ATOM	3427	CG	GLU	B	219	6.668	58.061	67.478	1.00	143.68	6
ATOM	3428	CD	GLU	B	219	6.462	58.174	68.971	1.00	145.94	6
ATOM	3429	OE1	GLU	B	219	7.328	58.769	69.650	1.00	146.59	8
ATOM	3430	OE2	GLU	B	219	5.423	57.679	69.462	1.00	147.42	8
ATOM	3431	C	GLU	B	219	7.556	58.819	64.977	1.00	78.30	6
ATOM	3432	O	GLU	B	219	6.477	58.659	64.396	1.00	78.84	8
ATOM	3433	N	HIS	B	220	8.121	60.014	65.138	1.00	66.20	7
ATOM	3434	CA	HIS	B	220	7.504	61.227	64.609	1.00	66.15	6
ATOM	3435	CB	HIS	B	220	8.338	62.448	64.994	1.00	105.59	6
ATOM	3436	CG	HIS	B	220	8.015	62.991	66.349	1.00	108.40	6
ATOM	3437	CD2	HIS	B	220	8.405	62.596	67.584	1.00	109.60	6
ATOM	3438	ND1	HIS	B	220	7.157	64.054	66.540	1.00	109.83	7
ATOM	3439	CE1	HIS	B	220	7.034	64.291	67.834	1.00	110.63	6
ATOM	3440	NE2	HIS	B	220	7.782	63.420	68.489	1.00	111.13	7
ATOM	3441	C	HIS	B	220	7.343	61.148	63.102	1.00	65.62	6
ATOM	3442	O	HIS	B	220	6.311	61.534	62.561	1.00	65.51	8
ATOM	3443	N	LEU	B	221	8.370	60.640	62.429	1.00	64.25	7
ATOM	3444	CA	LEU	B	221	8.337	60.490	60.983	1.00	62.89	6
ATOM	3445	CB	LEU	B	221	9.520	59.655	60.508	1.00	40.10	6
ATOM	3446	CG	LEU	B	221	10.733	60.492	60.127	1.00	39.46	6
ATOM	3447	CD1	LEU	B	221	12.014	59.665	60.231	1.00	38.63	6

ATOM	3464	CE1	TYR	B	223	4.605	62.326	65.696	1.00	59.49	6
ATOM	3465	CD2	TYR	B	223	2.993	60.637	64.217	1.00	60.08	6
ATOM	3466	CE2	TYR	B	223	3.214	60.379	65.560	1.00	60.21	6
ATOM	3467	CZ	TYR	B	223	4.022	61.224	66.297	1.00	59.74	6
ATOM	3468	OH	TYR	B	223	4.248	60.951	67.631	1.00	59.35	8
ATOM	3469	C	TYR	B	223	2.646	60.987	59.913	1.00	64.43	6
ATOM	3470	O	TYR	B	223	1.480	61.164	59.558	1.00	64.54	8
ATOM	3471	N	PHE	B	224	3.678	61.022	59.074	1.00	73.75	7
ATOM	3472	CA	PHE	B	224	3.502	61.238	57.645	1.00	74.89	6
ATOM	3473	CB	PHE	B	224	4.815	61.699	56.983	1.00	86.72	6
ATOM	3474	CG	PHE	B	224	5.376	62.988	57.543	1.00	87.15	6
ATOM	3475	CD1	PHE	B	224	6.108	62.992	58.728	1.00	87.88	6
ATOM	3476	CD2	PHE	B	224	5.171	64.197	56.885	1.00	86.49	6
ATOM	3477	CE1	PHE	B	224	6.624	64.174	59.245	1.00	87.12	6
ATOM	3478	CE2	PHE	B	224	5.684	65.385	57.398	1.00	85.69	6
ATOM	3479	CZ	PHE	B	224	6.410	65.373	58.578	1.00	86.13	6
ATOM	3480	C	PHE	B	224	3.061	59.897	57.053	1.00	76.36	6
ATOM	3481	O	PHE	B	224	3.744	59.311	56.211	1.00	76.67	8
ATOM	3482	N	ALA	B	225	1.916	59.413	57.523	1.00	80.05	7
ATOM	3483	CA	ALA	B	225	1.360	58.149	57.059	1.00	81.59	6
ATOM	3484	CB	ALA	B	225	1.234	57.174	58.225	1.00	74.53	6
ATOM	3485	C	ALA	B	225	-0.001	58.365	56.407	1.00	83.07	6
ATOM	3486	O	ALA	B	225	-0.103	58.491	55.188	1.00	83.49	8
ATOM	3487	N	ASN	B	226	-1.049	58.410	57.220	1.00	69.91	7
ATOM	3488	CA	ASN	B	226	-2.390	58.608	56.689	1.00	72.09	6
ATOM	3489	CB	ASN	B	226	-3.405	57.834	57.525	1.00	91.37	6
ATOM	3490	CG	ASN	B	226	-3.139	56.343	57.519	1.00	92.71	6
ATOM	3491	OD1	ASN	B	226	-3.209	55.690	56.476	1.00	91.90	8
ATOM	3492	ND2	ASN	B	226	-2.828	55.796	58.687	1.00	93.91	7
ATOM	3493	C	ASN	B	226	-2.734	60.088	56.670	1.00	73.36	6
ATOM	3494	O	ASN	B	226	-2.610	60.771	57.683	1.00	74.07	8
ATOM	3495	N	PRO	B	227	-3.157	60.602	55.502	1.00	115.46	7
ATOM	3496	CD	PRO	B	227	-2.811	59.980	54.207	1.00	39.04	6
ATOM	3497	CA	PRO	B	227	-3.522	62.013	55.317	1.00	116.36	6
ATOM	3498	CB	PRO	B	227	-2.727	62.390	54.077	1.00	39.80	6
ATOM	3499	CG	PRO	B	227	-2.919	61.146	53.223	1.00	39.44	6
ATOM	3500	C	PRO	B	227	-5.008	62.361	55.141	1.00	118.18	6
ATOM	3501	O	PRO	B	227	-5.859	61.494	54.963	1.00	118.42	8
ATOM	3502	N	GLU	B	228	-5.294	63.656	55.199	1.00	106.47	7
ATOM	3503	CA	GLU	B	228	-6.636	64.181	54.991	1.00	108.65	6
ATOM	3504	CB	GLU	B	228	-					

ATOM	3520	C	SER	B	230	-7.766	68.805	48.234	1.00	84.59	6
ATOM	3521	O	SER	B	230	-6.569	68.843	47.973	1.00	84.28	8
ATOM	3522	N	SER	B	231	-8.703	68.782	47.291	1.00152.80	7	
ATOM	3523	CA	SER	B	231	-8.360	68.774	45.867	1.00154.78	6	
ATOM	3524	CB	SER	B	231	-9.544	68.232	45.056	1.00208.87	6	
ATOM	3525	OG	SER	B	231	-10.734	68.948	45.338	1.00208.87	8	
ATOM	3526	C	SER	B	231	-7.933	70.141	45.320	1.00155.53	6	
ATOM	3527	O	SER	B	231	-8.412	70.526	44.231	1.00155.94	8	
ATOM	3528	OXT	SER	B	231	-7.102	70.803	45.978	1.00208.87	8	
ATOM	3529	CB	ALA	C	2	8.362	95.868	32.510	1.00125.97	6	
ATOM	3530	C	ALA	C	2	10.376	97.139	31.725	1.00	93.91	6
ATOM	3531	O	ALA	C	2	11.120	96.421	32.394	1.00	93.90	8
ATOM	3532	N	ALA	C	2	8.926	95.898	30.107	1.00	94.38	7
ATOM	3533	CA	ALA	C	2	8.955	96.695	31.369	1.00	94.22	6
ATOM	3534	N	ILE	C	3	10.744	98.330	31.276	1.00119.26	7	
ATOM	3535	CA	ILE	C	3	12.067	98.868	31.547	1.00117.83	6	
ATOM	3536	CB	ILE	C	3	12.862	99.056	30.224	1.00	58.24	6
ATOM	3537	CG2	ILE	C	3	14.219	99.663	30.496	1.00	58.03	6
ATOM	3538	CG1	ILE	C	3	13.034	97.707	29.519	1.00	58.36	6
ATOM	3539	CD1	ILE	C	3	14.019	96.765	30.177	1.00	56.18	6
ATOM	3540	C	ILE	C	3	11.892	100.215	32.237	1.00117.16	6	
ATOM	3541	O	ILE	C	3	11.383	101.155	31.628	1.00117.61	8	
ATOM	3542	N	LYS	C	4	12.290	100.307	33.507	1.00	25.32	7
ATOM	3543	CA	LYS	C	4	12.161	101.565	34.243	1.00	24.08	6
ATOM	3544	CB	LYS	C	4	11.855	101.287	35.718	1.00108.61	6	
ATOM	3545	CG	LYS	C	4	11.397	102.522	36.477	1.00111.82	6	
ATOM	3546	CD	LYS	C	4	10.806	102.188	37.843	1.00114.29	6	
ATOM	3547	CE	LYS	C	4	10.245	103.444	38.512	1.00116.05	6	
ATOM	3548	NZ	LYS	C	4	9.624	103.185	39.844	1.00117.65	7	
ATOM	3549	C	LYS	C	4	13.417	102.440	34.102	1.00	22.74	6
ATOM	3550	O	LYS	C	4	14.514	102.054	34.485	1.00	21.59	8
ATOM	3551	N	ARG	C	5	13.258	103.622	33.527	1.00	40.10	7
ATOM	3552	CA	ARG	C	5	14.405	104.482	33.356	1.00	41.90	6
ATOM	3553	CB	ARG	C	5	14.312	105.225	32.019	1.00	84.10	6
ATOM	3554	CG	ARG	C	5	15.613	105.922	31.616	1.00	86.67	6
ATOM	3555	CD	ARG	C	5	15.822	105.907	30.105	1.00	88.03	6
ATOM	3556	NE	ARG	C	5	17.166	106.347	29.739	1.00	89.24	7
ATOM	3557	CZ	ARG	C	5	17.695	106.206	28.527	1.00	90.34	6
ATOM	3558	NH1	ARG	C	5	16.996	105.635	27.553	1.00	91.45	7
ATOM	3559	NH2	ARG	C	5	18.927	106.633	28.286	1.00	90.51	7
ATOM	3560	C	ARG	C	5	14.526	105.462	34.515	1.00	42.57	6
ATOM	3561	O	ARG	C	5	13.551	105.754	35.198	1.00	42.05	8
ATOM	3562	N	PHE	C	6	15.743	105.946	34.739	1.00	41.22	7
ATOM	3563	CA	PHE	C	6	16.053	106.895	35.804	1.00	42.96	6
ATOM	3564	CB	PHE	C	6	16.862	106.193	36.915	1.00	74.13	6
ATOM	3565	CG	PHE	C	6	16.116	105.090	37.642	1.00	74.47	6
ATOM	3566	CD1	PHE	C	6	15.633	103.981	36.963	1.00	74.97	6
ATOM	3567	CD2	PHE	C	6	15.898	105.171	39.013	1.00	74.02	6
ATOM	3568	CE1	PHE	C	6	14.942	102.975	37.643	1.00	74.17	6
ATOM	3569	CE2	PHE	C	6	15.210	104.172	39.694	1.00	72.21	6
ATOM	3570	CZ	PHE	C	6	14.732	103.076	39.010	1.00	72.32	6
ATOM	3571	C	PHE	C	6	16.950	107.919	35.121	1.00	44.27	6
ATOM	3572	O	PHE	C	6	17.774	107.508	34.310	1.00	44.21	8
ATOM	3573	N	GLY	C	7	16.817	109.221	35.408	1.00	93.24	7
ATOM	3574	CA	GLY	C	7	17.711	110.177	34.750	1.00	95.08	6
ATOM	3575	C	GLY	C	7	17.441	111.682	34.660	1.00	95.99	6

ATOM	3576	O	GLY	C	7	16.818	112.268	35.548	1.00	95.32	8
ATOM	3577	N	ARG	C	8	17.956	112.298	33.583	1.00	71.19	7
ATOM	3578	CA	ARG	C	8	17.813	113.738	33.283	1.00	72.07	6
ATOM	3579	CB	ARG	C	8	18.364	114.580	34.432	1.00	113.66	6
ATOM	3580	CG	ARG	C	8	17.325	115.062	35.414	1.00	115.61	6
ATOM	3581	CD	ARG	C	8	17.948	116.047	36.382	1.00	118.64	6
ATOM	3582	NE	ARG	C	8	16.997	116.518	37.381	1.00	121.32	7
ATOM	3583	CZ	ARG	C	8	17.309	117.340	38.377	1.00	122.59	6
ATOM	3584	NH1	ARG	C	8	18.553	117.786	38.506	1.00	121.72	7
ATOM	3585	NH2	ARG	C	8	16.377	117.713	39.245	1.00	124.20	7
ATOM	3586	C	ARG	C	8	18.469	114.214	31.958	1.00	71.82	6
ATOM	3587	O	ARG	C	8	19.507	113.707	31.543	1.00	71.24	8
ATOM	3588	N	ILE	C	9	17.844	115.204	31.319	1.00	97.66	7
ATOM	3589	CA	ILE	C	9	18.289	115.817	30.055	1.00	99.18	6
ATOM	3590	CB	ILE	C	9	19.471	116.816	30.286	1.00	113.15	6
ATOM	3591	CG2	ILE	C	9	19.860	117.489	28.975	1.00	113.13	6
ATOM	3592	CG1	ILE	C	9	19.043	117.954	31.221	1.00	113.50	6
ATOM	3593	CD1	ILE	C	9	18.806	117.547	32.651	1.00	114.11	6
ATOM	3594	C	ILE	C	9	18.652	114.882	28.889	1.00	99.69	6
ATOM	3595	O	ILE	C	9	17.787	114.176	28.371	1.00	99.98	8
ATOM	3596	N	ARG	C	10	19.923	114.907	28.479	1.00	91.44	7
ATOM	3597	CA	ARG	C	10	20.469	114.115	27.365	1.00	91.76	6
ATOM	3598	CB	ARG	C	10	19.799	112.738	27.277	1.00	175.32	6
ATOM	3599	CG	ARG	C	10	20.491	111.780	26.317	1.00	178.69	6
ATOM	3600	CD	ARG	C	10	19.809	110.423	26.287	1.00	181.18	6
ATOM	3601	NE	ARG	C	10	20.567	109.457	25.498	1.00	183.82	7
ATOM	3602	CZ	ARG	C	10	20.194	108.196	25.303	1.00	185.19	6
ATOM	3603	NH1	ARG	C	10	19.067	107.745	25.838	1.00	185.55	7
ATOM	3604	NH2	ARG	C	10	20.950	107.385	24.575	1.00	186.22	7
ATOM	3605	C	ARG	C	10	20.281	114.875	26.045	1.00	91.37	6
ATOM	3606	O	ARG	C	10	19.738	114.343	25.074	1.00	91.78	8
ATOM	3607	N	GLU	C	11	20.758	116.119	26.028	1.00	37.16	7
ATOM	3608	CA	GLU	C	11	20.654	117.028	24.883	1.00	36.54	6
ATOM	3609	CB	GLU	C	11	21.407	118.309	25.202	1.00	82.90	6
ATOM	3610	CG	GLU	C	11	21.511	119.279	24.057	1.00	84.74	6
ATOM	3611	CD	GLU	C	11	22.173	120.560	24.489	1.00	86.15	6
ATOM	3612	OE1	GLU	C	11	23.250	120.472	25.108	1.00	87.27	8
ATOM	3613	OE2	GLU	C	11	21.624	121.651	24.221	1.00	87.25	8
ATOM	3614	C	GLU	C	11	21.087	116.547	23.509	1.00	36.03	6
ATOM	3615	O	GLU	C	11	20.621	117.077	22.505	1.00	36.52	8
ATOM	3616	N	VAL	C	12	21.980	115.563	23.453	1.00	63.96	7
ATOM	3617	CA	VAL	C	12	22.465	115.037	22.174	1.00	63.48	6
ATOM	3618	CB	VAL	C	12	23.871	115.645	21.828	1.00	43.42	6
ATOM	3619	CG1	VAL	C	12	24.359	115.158	20.481	1.00	43.03	6
ATOM	3620	CG2	VAL	C	12	23.782	117.160	21.807	1.00	41.74	6
ATOM	3621	C	VAL	C	12	22.525	113.498	22.181	1.00	63.52	6
ATOM	3622	O	VAL	C	12	21.596	112.838	22.653	1.00	64.01	8
ATOM	3623	N	ILE	C	13	23.614	112.945	21.651	1.00	82.06	7
ATOM	3624	CA	ILE	C	13	23.830	111.502	21.563	1.00	82.83	6
ATOM	3625	CB	ILE	C	13	23.440	110.967	20.150	1.00	46.79	6
ATOM	3626	CG2	ILE	C	13	24.586	110.181	19.525	1.00	46.26	6
ATOM	3627	CG1	ILE	C	13	22.197	110.086	20.244	1.00	46.68	6
ATOM	3628	CD1	ILE	C	13	20.964	110.830	20.703	1.00	47.84	6
ATOM	3629	C	ILE	C	13	25.313	111.220	21.813	1.00	83.68	6
ATOM	3630	O	ILE	C	13	26.152	112.109	21.632	1.00	84.19	8
ATOM	3631	N	PRO	C	14	25.658	109.979	22.226	1.00	200.26	7

ATOM	3632	CD	PRO	C	14	24.784	108.804	22.390	1.00143.05	6
ATOM	3633	CA	PRO	C	14	27.055	109.613	22.492	1.00200.29	6
ATOM	3634	CB	PRO	C	14	26.958	108.144	22.909	1.00142.05	6
ATOM	3635	CG	PRO	C	14	25.752	107.666	22.176	1.00143.08	6
ATOM	3636	C	PRO	C	14	27.968	109.827	21.289	1.00198.70	6
ATOM	3637	O	PRO	C	14	29.189	109.735	21.406	1.00199.16	8
ATOM	3638	N	LEU	C	15	27.362	110.104	20.137	1.00 90.84	7
ATOM	3639	CA	LEU	C	15	28.091	110.369	18.901	1.00 91.40	6
ATOM	3640	CB	LEU	C	15	29.307	111.242	19.178	1.00 74.19	6
ATOM	3641	CG	LEU	C	15	30.246	111.448	17.993	1.00 73.88	6
ATOM	3642	CD1	LEU	C	15	29.550	112.193	16.853	1.00 73.64	6
ATOM	3643	CD2	LEU	C	15	31.437	112.218	18.495	1.00 73.28	6
ATOM	3644	C	LEU	C	15	28.551	109.146	18.135	1.00 91.83	6
ATOM	3645	O	LEU	C	15	29.665	108.659	18.333	1.00 92.24	8
ATOM	3646	N	PRO	C	16	27.711	108.653	17.216	1.00 77.46	7
ATOM	3647	CD	PRO	C	16	26.444	109.243	16.749	1.00201.81	6
ATOM	3648	CA	PRO	C	16	28.062	107.475	16.421	1.00 76.68	6
ATOM	3649	CB	PRO	C	16	26.816	107.255	15.567	1.00201.48	6
ATOM	3650	CG	PRO	C	16	26.309	108.651	15.365	1.00202.73	6
ATOM	3651	C	PRO	C	16	29.312	107.703	15.579	1.00 74.58	6
ATOM	3652	O	PRO	C	16	29.660	108.831	15.248	1.00 73.75	8
ATOM	3653	N	PRO	C	17	29.999	106.622	15.222	1.00 94.18	7
ATOM	3654	CD	PRO	C	17	30.910	106.529	14.067	1.00208.87	6
ATOM	3655	CA	PRO	C	17	29.555	105.294	15.633	1.00 92.59	6
ATOM	3656	CB	PRO	C	17	29.755	104.479	14.370	1.00208.87	6
ATOM	3657	CG	PRO	C	17	31.069	105.022	13.882	1.00208.87	6
ATOM	3658	C	PRO	C	17	30.410	104.778	16.767	1.00 88.70	6
ATOM	3659	O	PRO	C	17	30.400	103.588	17.055	1.00 88.26	8
ATOM	3660	N	LEU	C	18	31.143	105.676	17.410	1.00 55.26	7
ATOM	3661	CA	LEU	C	18	32.039	105.281	18.485	1.00 51.42	6
ATOM	3662	CB	LEU	C	18	31.421	104.184	19.356	1.00 53.94	6
ATOM	3663	CG	LEU	C	18	30.219	104.518	20.241	1.00 53.68	6
ATOM	3664	CD1	LEU	C	18	29.655	103.219	20.819	1.00 53.23	6
ATOM	3665	CD2	LEU	C	18	30.643	105.475	21.358	1.00 52.67	6
ATOM	3666	C	LEU	C	18	33.291	104.752	17.804	1.00 49.36	6
ATOM	3667	O	LEU	C	18	34.399	105.087	18.201	1.00 49.27	8
ATOM	3668	N	THR	C	19	33.109	103.920	16.780	1.00 20.15	7
ATOM	3669	CA	THR	C	19	34.236	103.387	16.017	1.00 18.27	6
ATOM	3670	CB	THR	C	19	33.908	102.070	15.315	1.00 40.27	6
ATOM	3671	OG1	THR	C	19	32.747	102.248	14.494	1.00 40.82	8
ATOM	3672	CG2	THR	C	19	33.669	100.974	16.318	1.00 40.29	6
ATOM	3673	C	THR	C	19	34.504	104.411	14.925	1.00 17.52	6
ATOM	3674	O	THR	C	19	34.690	104.063	13.759	1.00 16.43	8
ATOM	3675	N	GLU	C	20	34.503	105.678	15.314	1.00 36.78	7
ATOM	3676	CA	GLU	C	20	34.730	106.759	14.378	1.00 38.00	6
ATOM	3677	CB	GLU	C	20	33.761	107.900	14.677	1.00 83.62	6
ATOM	3678	CG	GLU	C	20	33.772	109.033	13.669	1.00 85.64	6
ATOM	3679	CD	GLU	C	20	33.406	110.357	14.311	1.00 87.68	6
ATOM	3680	OE1	GLU	C	20	33.203	111.351	13.579	1.00 88.74	8
ATOM	3681	OE2	GLU	C	20	33.335	110.401	15.560	1.00 88.07	8
ATOM	3682	C	GLU	C	20	36.171	107.256	14.458	1.00 37.77	6
ATOM	3683	O	GLU	C	20	36.635	107.952	13.547	1.00 37.06	8
ATOM	3684	N	ILE	C	21	36.882	106.917	15.537	1.00 33.12	7
ATOM	3685	CA	ILE	C	21	38.271	107.361	15.648	1.00 35.17	6
ATOM	3686	CB	ILE	C	21	39.008	106.782	16.864	1.00 70.71	6
ATOM	3687	CG2	ILE	C	21	40.388	107.421	16.972	1.00 70.79	6



ATOM	3688	CG1	ILE	C	21	38.240	107.095	18.144	1.00	72.41	6
ATOM	3689	CD1	ILE	C	21	38.119	108.584	18.428	1.00	73.92	6
ATOM	3690	C	ILE	C	21	38.911	106.808	14.402	1.00	36.07	6
ATOM	3691	O	ILE	C	21	39.725	107.473	13.766	1.00	35.93	8
ATOM	3692	N	GLN	C	22	38.513	105.580	14.067	1.00	69.90	7
ATOM	3693	CA	GLN	C	22	38.978	104.882	12.874	1.00	71.08	6
ATOM	3694	CB	GLN	C	22	39.300	103.429	13.206	1.00	51.83	6
ATOM	3695	CG	GLN	C	22	40.499	103.265	14.124	1.00	51.01	6
ATOM	3696	CD	GLN	C	22	40.953	101.825	14.232	1.00	50.49	6
ATOM	3697	OE1	GLN	C	22	40.187	100.959	14.651	1.00	51.17	8
ATOM	3698	NE2	GLN	C	22	42.202	101.561	13.854	1.00	49.03	7
ATOM	3699	C	GLN	C	22	37.827	104.958	11.880	1.00	72.24	6
ATOM	3700	O	GLN	C	22	37.053	105.910	11.926	1.00	72.58	8
ATOM	3701	N	VAL	C	23	37.698	103.979	10.989	1.00	54.37	7
ATOM	3702	CA	VAL	C	23	36.595	104.006	10.031	1.00	55.27	6
ATOM	3703	CB	VAL	C	23	35.227	103.880	10.746	1.00	45.46	6
ATOM	3704	CG1	VAL	C	23	34.080	104.090	9.748	1.00	45.92	6
ATOM	3705	CG2	VAL	C	23	35.117	102.528	11.423	1.00	46.45	6
ATOM	3706	C	VAL	C	23	36.588	105.323	9.270	1.00	56.22	6
ATOM	3707	O	VAL	C	23	37.149	105.423	8.180	1.00	57.00	8
ATOM	3708	N	GLU	C	24	35.933	106.324	9.862	1.00	39.91	7
ATOM	3709	CA	GLU	C	24	35.821	107.663	9.288	1.00	41.34	6
ATOM	3710	CB	GLU	C	24	34.757	108.486	10.025	1.00	111.93	6
ATOM	3711	CG	GLU	C	24	33.323	108.053	9.752	1.00	116.16	6
ATOM	3712	CD	GLU	C	24	32.307	108.949	10.430	1.00	118.56	6
ATOM	3713	OE1	GLU	C	24	32.302	110.163	10.148	1.00	120.21	8
ATOM	3714	OE2	GLU	C	24	31.507	108.446	11.245	1.00	120.53	8
ATOM	3715	C	GLU	C	24	37.150	108.376	9.365	1.00	40.87	6
ATOM	3716	O	GLU	C	24	37.227	109.589	9.188	1.00	41.48	8
ATOM	3717	N	SER	C	25	38.194	107.609	9.643	1.00	48.64	7
ATOM	3718	CA	SER	C	25	39.533	108.154	9.722	1.00	48.38	6
ATOM	3719	CB	SER	C	25	40.287	107.593	10.930	1.00	73.51	6
ATOM	3720	OG	SER	C	25	41.621	108.083	10.983	1.00	73.78	8
ATOM	3721	C	SER	C	25	40.255	107.750	8.461	1.00	47.83	6
ATOM	3722	O	SER	C	25	40.710	108.593	7.698	1.00	47.42	8
ATOM	3723	N	TYR	C	26	40.346	106.446	8.243	1.00	54.43	7
ATOM	3724	CA	TYR	C	26	41.034	105.924	7.077	1.00	54.68	6
ATOM	3725	CB	TYR	C	26	40.858	104.404	7.005	1.00	49.43	6
ATOM	3726	CG	TYR	C	26	42.038	103.677	6.406	1.00	47.66	6
ATOM	3727	CD1	TYR	C	26	43.210	103.498	7.128	1.00	46.59	6
ATOM	3728	CE1	TYR	C	26	44.299	102.857	6.572	1.00	46.24	6
ATOM	3729	CD2	TYR	C	26	41.990	103.191	5.109	1.00	47.36	6
ATOM	3730	CE2	TYR	C	26	43.077	102.550	4.549	1.00	47.16	6
ATOM	3731	CZ	TYR	C	26	44.227	102.384	5.282	1.00	46.35	6
ATOM	3732	OH	TYR	C	26	45.303	101.734	4.718	1.00	46.49	8
ATOM	3733	C	TYR	C	26	40.480	106.572	5.814	1.00	55.37	6
ATOM	3734	O	TYR	C	26	41.221	107.148	5.014	1.00	55.48	8
ATOM	3735	N	LYS	C	27	39.167	106.474	5.654	1.00	60.13	7
ATOM	3736	CA	LYS	C	27	38.474	107.031	4.503	1.00	60.39	6
ATOM	3737	CB	LYS	C	27	36.976	107.042	4.777	1.00	79.68	6
ATOM	3738	CG	LYS	C	27	36.140	107.634	3.670	1.00	81.33	6
ATOM	3739	CD	LYS	C	27	34.664	107.567	4.037	1.00	83.89	6
ATOM	3740	CE	LYS	C	27	33.765	108.050	2.909	1.00	85.68	6
ATOM	3741	NZ	LYS	C	27	32.338	107.749	3.215	1.00	86.18	7
ATOM	3742	C	LYS	C	27	38.947	108.442	4.188	1.00	60.15	6
ATOM	3743	O	LYS	C	27	39.368	108.729	3.070	1.00	60.17	8

ATOM	3744	N	LYS	C	28	38.889	109.317	5.188	1.00	50.23	7
ATOM	3745	CA	LYS	C	28	39.283	110.709	5.008	1.00	51.29	6
ATOM	3746	CB	LYS	C	28	38.838	111.557	6.205	1.00	208.87	6
ATOM	3747	CG	LYS	C	28	39.587	111.276	7.499	1.00	208.87	6
ATOM	3748	CD	LYS	C	28	39.211	112.278	8.581	1.00	208.87	6
ATOM	3749	CE	LYS	C	28	40.027	112.062	9.843	1.00	208.87	6
ATOM	3750	NZ	LYS	C	28	39.705	113.078	10.880	1.00	208.87	7
ATOM	3751	C	LYS	C	28	40.776	110.872	4.802	1.00	50.07	6
ATOM	3752	O	LYS	C	28	41.266	111.991	4.625	1.00	49.02	8
ATOM	3753	N	ALA	C	29	41.491	109.753	4.841	1.00	30.72	7
ATOM	3754	CA	ALA	C	29	42.934	109.748	4.647	1.00	30.33	6
ATOM	3755	CB	ALA	C	29	43.617	108.995	5.766	1.00	73.05	6
ATOM	3756	C	ALA	C	29	43.108	109.015	3.349	1.00	30.18	6
ATOM	3757	O	ALA	C	29	43.954	109.363	2.528	1.00	29.71	8
ATOM	3758	N	LEU	C	30	42.282	107.990	3.184	1.00	47.18	7
ATOM	3759	CA	LEU	C	30	42.264	107.170	1.988	1.00	49.80	6
ATOM	3760	CB	LEU	C	30	41.920	105.727	2.355	1.00	77.57	6
ATOM	3761	CG	LEU	C	30	41.923	104.720	1.207	1.00	79.55	6
ATOM	3762	CD1	LEU	C	30	43.315	104.599	0.633	1.00	80.89	6
ATOM	3763	CD2	LEU	C	30	41.438	103.384	1.708	1.00	79.00	6
ATOM	3764	C	LEU	C	30	41.190	107.770	1.067	1.00	50.91	6
ATOM	3765	O	LEU	C	30	40.442	107.056	0.390	1.00	50.20	8
ATOM	3766	N	GLN	C	31	41.126	109.100	1.071	1.00	108.17	7
ATOM	3767	CA	GLN	C	31	40.181	109.874	0.269	1.00	108.50	6
ATOM	3768	CB	GLN	C	31	40.839	111.190	-0.137	1.00	55.88	6
ATOM	3769	CG	GLN	C	31	40.877	112.184	0.993	1.00	54.19	6
ATOM	3770	CD	GLN	C	31	41.888	113.291	0.797	1.00	54.53	6
ATOM	3771	OE1	GLN	C	31	42.243	113.639	-0.321	1.00	53.64	8
ATOM	3772	NE2	GLN	C	31	42.350	113.864	1.900	1.00	55.77	7
ATOM	3773	C	GLN	C	31	39.666	109.141	-0.963	1.00	110.03	6
ATOM	3774	O	GLN	C	31	38.491	109.245	-1.312	1.00	110.78	8
ATOM	3775	N	ALA	C	32	40.567	108.412	-1.610	1.00	112.39	7
ATOM	3776	CA	ALA	C	32	40.277	107.621	-2.801	1.00	114.14	6
ATOM	3777	CB	ALA	C	32	40.562	106.153	-2.511	1.00	162.72	6
ATOM	3778	C	ALA	C	32	38.888	107.755	-3.409	1.00	115.03	6
ATOM	3779	O	ALA	C	32	38.744	108.151	-4.563	1.00	115.39	8
ATOM	3780	N	ASP	C	33	37.873	107.405	-2.630	1.00	75.66	7
ATOM	3781	CA	ASP	C	33	36.489	107.449	-3.075	1.00	76.40	6
ATOM	3782	CB	ASP	C	33	35.594	106.892	-1.967	1.00	98.63	6
ATOM	3783	CG	ASP	C	33	34.129	106.919	-2.333	1.00	99.96	6
ATOM	3784	OD1									

ATOM	3800	C	PRO	C	35	38.005	112.865	-7.999	1.00	67.29	6
ATOM	3801	O	PRO	C	35	38.047	113.955	-7.444	1.00	68.02	8
ATOM	3802	N	PRO	C	36	39.090	112.284	-8.534	1.00	59.92	7
ATOM	3803	CD	PRO	C	36	39.041	110.962	-9.189	1.00	60.17	6
ATOM	3804	CA	PRO	C	36	40.452	112.821	-8.576	1.00	61.78	6
ATOM	3805	CB	PRO	C	36	41.056	112.088	-9.763	1.00	60.22	6
ATOM	3806	CG	PRO	C	36	40.506	110.707	-9.559	1.00	60.65	6
ATOM	3807	C	PRO	C	36	40.592	114.331	-8.683	1.00	62.61	6
ATOM	3808	O	PRO	C	36	41.698	114.859	-8.596	1.00	63.80	8
ATOM	3809	N	GLU	C	37	39.476	115.023	-8.877	1.00	97.57	7
ATOM	3810	CA	GLU	C	37	39.491	116.475	-8.975	1.00	98.61	6
ATOM	3811	CB	GLU	C	37	38.189	116.969	-9.615	1.00	120.72	6
ATOM	3812	CG	GLU	C	37	37.946	116.409	-11.018	1.00	122.45	6
ATOM	3813	CD	GLU	C	37	36.725	117.014	-11.695	1.00	123.66	6
ATOM	3814	OE1	GLU	C	37	36.713	118.245	-11.915	1.00	124.43	8
ATOM	3815	OE2	GLU	C	37	35.775	116.265	-12.011	1.00	124.87	8
ATOM	3816	C	GLU	C	37	39.691	117.112	-7.588	1.00	98.50	6
ATOM	3817	O	GLU	C	37	40.606	117.923	-7.401	1.00	98.69	8
ATOM	3818	N	LYS	C	38	38.856	116.740	-6.614	1.00	57.30	7
ATOM	3819	CA	LYS	C	38	38.989	117.296	-5.265	1.00	57.57	6
ATOM	3820	CB	LYS	C	38	37.606	117.569	-4.649	1.00	126.96	6
ATOM	3821	CG	LYS	C	38	36.600	116.430	-4.700	1.00	128.66	6
ATOM	3822	CD	LYS	C	38	35.284	116.855	-4.040	1.00	129.19	6
ATOM	3823	CE	LYS	C	38	34.243	115.747	-4.058	1.00	129.10	6
ATOM	3824	NZ	LYS	C	38	32.995	116.155	-3.356	1.00	129.49	7
ATOM	3825	C	LYS	C	38	39.859	116.493	-4.284	1.00	57.41	6
ATOM	3826	O	LYS	C	38	40.545	115.538	-4.665	1.00	55.85	8
ATOM	3827	N	ARG	C	39	39.819	116.895	-3.016	1.00	79.57	7
ATOM	3828	CA	ARG	C	39	40.634	116.273	-1.977	1.00	80.58	6
ATOM	3829	CB	ARG	C	39	40.572	114.748	-2.073	1.00	131.15	6
ATOM	3830	CG	ARG	C	39	39.238	114.116	-1.677	1.00	133.62	6
ATOM	3831	CD	ARG	C	39	38.881	114.351	-0.209	1.00	136.29	6
ATOM	3832	NE	ARG	C	39	37.995	113.303	0.304	1.00	139.40	7
ATOM	3833	CZ	ARG	C	39	37.444	113.300	1.516	1.00	140.64	6
ATOM	3834	NH1	ARG	C	39	37.675	114.296	2.363	1.00	141.73	7
ATOM	3835	NH2	ARG	C	39	36.664	112.294	1.889	1.00	141.12	7
ATOM	3836	C	ARG	C	39	42.039	116.774	-2.289	1.00	80.41	6
ATOM	3837	O	ARG	C	39	42.501	116.635	-3.422	1.00	80.59	8
ATOM	3838	N	GLU	C	40	42.714	117.368	-1.306	1.00	133.71	7
ATOM	3839	CA	GLU	C	40	44.045	117.921	-1.554	1.00	134.19	6
ATOM	3840	CB	GLU	C	40	44.014	119.450	-1.429	1.00	153.39	6
ATOM	3841	CG	GLU	C	40	45.378	120.116	-1.608	1.00	154.96	6
ATOM	3842	CD	GLU	C	40	45.289	121.626	-1.736	1.00	155.83	6
ATOM	3843	OE1	GLU	C	40	44.748	122.276	-0.820	1.00	156.11	8
ATOM	3844	OE2	GLU	C	40	45.765	122.162	-2.757	1.00	156.29	8
ATOM	3845	C	GLU	C	40	45.210	117.396	-0.731	1.00	133.67	6
ATOM	3846	O	GLU	C	40	46.237	117.014	-1.292	1.00	133.47	8
ATOM	3847	N	ASN	C	41	45.079	117.393	0.591	1.00	48.89	7
ATOM	3848	CA	ASN	C	41	46.184	116.913	1.410	1.00	48.90	6
ATOM	3849	CB	ASN	C	41	46.763	118.069	2.228	1.00	130.74	6
ATOM	3850	CG	ASN	C	41	47.479	119.084	1.364	1.00	132.51	6
ATOM	3851	OD1	ASN	C	41	48.284	118.723	0.502	1.00	133.26	8
ATOM	3852	ND2	ASN	C	41	47.199	120.362	1.593	1.00	133.67	7
ATOM	3853	C	ASN	C	41	45.946	115.713	2.328	1.00	47.57	6
ATOM	3854	O	ASN	C	41	44.923	115.032	2.263	1.00	47.19	8
ATOM	3855	N	VAL	C	42	46.941	115.457	3.168	1.00	113.68	7

ATOM	3856	CA	VAL	C	42	46.908	114.361	4.123	1.00113.62	6
ATOM	3857	CB	VAL	C	42	45.718	114.516	5.104	1.00120.00	6
ATOM	3858	CG1	VAL	C	42	45.857	113.533	6.264	1.00119.44	6
ATOM	3859	CG2	VAL	C	42	45.661	115.946	5.620	1.00120.00	6
ATOM	3860	C	VAL	C	42	46.834	112.990	3.443	1.00113.04	6
ATOM	3861	O	VAL	C	42	46.163	112.811	2.418	1.00112.64	8
ATOM	3862	N	GLY	C	43	47.554	112.037	4.028	1.00 97.34	7
ATOM	3863	CA	GLY	C	43	47.580	110.680	3.526	1.00 95.90	6
ATOM	3864	C	GLY	C	43	47.760	110.517	2.033	1.00 95.43	6
ATOM	3865	O	GLY	C	43	48.371	111.348	1.364	1.00 95.25	8
ATOM	3866	N	ILE	C	44	47.216	109.411	1.532	1.00 98.61	7
ATOM	3867	CA	ILE	C	44	47.267	109.030	0.126	1.00 97.86	6
ATOM	3868	CB	ILE	C	44	45.845	108.599	-0.360	1.00117.32	6
ATOM	3869	CG2	ILE	C	44	45.725	108.710	-1.883	1.00118.51	6
ATOM	3870	CG1	ILE	C	44	45.567	107.156	0.076	1.00117.91	6
ATOM	3871	CD1	ILE	C	44	45.689	106.909	1.559	1.00119.46	6
ATOM	3872	C	ILE	C	44	47.842	110.086	-0.815	1.00 96.77	6
ATOM	3873	O	ILE	C	44	48.942	109.927	-1.344	1.00 96.62	8
ATOM	3874	N	GLN	C	45	47.098	111.168	-1.001	1.00 64.52	7
ATOM	3875	CA	GLN	C	45	47.503	112.235	-1.899	1.00 63.24	6
ATOM	3876	CB	GLN	C	45	46.306	113.144	-2.178	1.00134.09	6
ATOM	3877	CG	GLN	C	45	46.562	114.199	-3.226	1.00134.29	6
ATOM	3878	CD	GLN	C	45	45.286	114.852	-3.692	1.00135.13	6
ATOM	3879	OE1	GLN	C	45	44.484	115.316	-2.883	1.00136.75	8
ATOM	3880	NE2	GLN	C	45	45.090	114.896	-5.003	1.00135.00	7
ATOM	3881	C	GLN	C	45	48.677	113.053	-1.386	1.00 61.15	6
ATOM	3882	O	GLN	C	45	49.646	113.280	-2.110	1.00 60.47	8
ATOM	3883	N	ALA	C	46	48.585	113.510	-0.143	1.00 62.10	7
ATOM	3884	CA	ALA	C	46	49.661	114.294	0.445	1.00 60.83	6
ATOM	3885	CB	ALA	C	46	49.509	114.356	1.955	1.00131.32	6
ATOM	3886	C	ALA	C	46	50.954	113.594	0.080	1.00 59.10	6
ATOM	3887	O	ALA	C	46	51.696	114.060	-0.776	1.00 58.97	8
ATOM	3888	N	ALA	C	47	51.191	112.452	0.716	1.00 76.48	7
ATOM	3889	CA	ALA	C	47	52.387	111.657	0.467	1.00 75.00	6
ATOM	3890	CB	ALA	C	47	52.158	110.221	0.947	1.00 76.20	6
ATOM	3891	C	ALA	C	47	52.780	111.674	-1.019	1.00 74.00	6
ATOM	3892	O	ALA	C	47	53.961	111.600	-1.368	1.00 74.34	8
ATOM	3893	N	PHE	C	48	51.787	111.767	-1.895	1.00 40.16	7
ATOM	3894	CA	PHE	C	48	52.065	111.811	-3.313	1.00 38.41	6
ATOM	3895	CB	PHE	C	48	50.795	111.553	-4.122	1.00 63.46	6
ATOM	3896	CG	PHE	C	48	50.569	110.105	-4.456	1.00 63.24	6
ATOM	3897	CD1	PHE	C	48	51.206	109.099	-3.735	1.00 62.54	6
ATOM	3898	CD2	PHE	C	48	49.701	109.747	-5.481	1.00 63.01	6
ATOM	3899	CE1	PHE	C	48	50.983	107.766	-4.031	1.00 61.74	6
ATOM	3900	CE2	PHE	C	48	49.470	108.414	-5.780	1.00 61.69	6
ATOM	3901	CZ	PHE	C	48	50.111	107.422	-5.056	1.00 61.01	6
ATOM	3902	C	PHE	C	48	52.612	113.185	-3.618	1.00 38.13	6
ATOM	3903	O	PHE	C	48	53.794	113.320	-3.942	1.00 39.04	8
ATOM	3904	N	LYS	C	49	51.756	114.202	-3.500	1.00 31.04	7
ATOM	3905	CA	LYS	C	49	52.164	115.574	-3.760	1.00 29.55	6
ATOM	3906	CB	LYS	C	49	51.042	116.541	-3.420	1.00 43.45	6
ATOM	3907	CG	LYS	C	49	49.942	116.566	-4.457	1.00 43.78	6
ATOM	3908	CD	LYS	C	49	48.890	117.607	-4.106	1.00 44.92	6
ATOM	3909	CE	LYS	C	49	47.993	117.952	-5.295	1.00 45.14	6
ATOM	3910	NZ	LYS	C	49	47.157	119.174	-5.031	1.00 45.76	7
ATOM	3911	C	LYS	C	49	53.383	115.848	-2.912	1.00 29.35	6

ATOM	3912	O	LYS	C	49	54.371	116.390	-3.391	1.00	28.88	8
ATOM	3913	N	GLU	C	50	53.325	115.451	-1.652	1.00	18.42	7
ATOM	3914	CA	GLU	C	50	54.461	115.636	-0.768	1.00	20.92	6
ATOM	3915	CB	GLU	C	50	54.285	114.825	0.515	1.00	124.61	6
ATOM	3916	CG	GLU	C	50	53.448	115.494	1.583	1.00	127.58	6
ATOM	3917	CD	GLU	C	50	53.419	114.679	2.851	1.00	129.37	6
ATOM	3918	OE1	GLU	C	50	54.507	114.257	3.299	1.00	128.96	8
ATOM	3919	OE2	GLU	C	50	52.315	114.463	3.397	1.00	132.46	8
ATOM	3920	C	GLU	C	50	55.743	115.194	-1.467	1.00	21.08	6
ATOM	3921	O	GLU	C	50	56.631	116.000	-1.719	1.00	22.13	8
ATOM	3922	N	THR	C	51	55.852	113.911	-1.777	1.00	71.11	7
ATOM	3923	CA	THR	C	51	57.046	113.427	-2.442	1.00	72.37	6
ATOM	3924	CB	THR	C	51	56.886	111.980	-2.832	1.00	31.71	6
ATOM	3925	OG1	THR	C	51	56.273	111.262	-1.759	1.00	30.28	8
ATOM	3926	CG2	THR	C	51	58.230	111.386	-3.103	1.00	31.58	6
ATOM	3927	C	THR	C	51	57.249	114.262	-3.697	1.00	74.48	6
ATOM	3928	O	THR	C	51	56.557	114.071	-4.701	1.00	74.18	8
ATOM	3929	N	PHE	C	52	58.194	115.195	-3.641	1.00	207.23	7
ATOM	3930	CA	PHE	C	52	58.437	116.065	-4.781	1.00	208.87	6
ATOM	3931	CB	PHE	C	52	59.544	117.102	-4.471	1.00	106.21	6
ATOM	3932	CG	PHE	C	52	60.822	116.525	-3.893	1.00	106.76	6
ATOM	3933	CD1	PHE	C	52	61.419	115.387	-4.434	1.00	106.34	6
ATOM	3934	CD2	PHE	C	52	61.462	117.171	-2.836	1.00	106.63	6
ATOM	3935	CE1	PHE	C	52	62.635	114.907	-3.930	1.00	106.88	6
ATOM	3936	CE2	PHE	C	52	62.675	116.701	-2.327	1.00	106.95	6
ATOM	3937	CZ	PHE	C	52	63.262	115.568	-2.874	1.00	107.20	6
ATOM	3938	C	PHE	C	52	58.752	115.329	-6.079	1.00	208.87	6
ATOM	3939	O	PHE	C	52	59.429	114.299	-6.075	1.00	208.87	8
ATOM	3940	N	PRO	C	53	58.227	115.837	-7.209	1.00	122.42	7
ATOM	3941	CD	PRO	C	53	57.338	117.005	-7.345	1.00	39.07	6
ATOM	3942	CA	PRO	C	53	58.467	115.224	-8.514	1.00	122.58	6
ATOM	3943	CB	PRO	C	53	58.031	116.313	-9.478	1.00	38.23	6
ATOM	3944	CG	PRO	C	53	56.863	116.884	-8.778	1.00	38.12	6
ATOM	3945	C	PRO	C	53	59.947	114.921	-8.634	1.00	123.24	6
ATOM	3946	O	PRO	C	53	60.766	115.837	-8.679	1.00	124.61	8
ATOM	3947	N	ILE	C	54	60.293	113.641	-8.676	1.00	59.25	7
ATOM	3948	CA	ILE	C	54	61.691	113.260	-8.772	1.00	59.00	6
ATOM	3949	CB	ILE	C	54	61.854	111.761	-9.153	1.00	38.24	6
ATOM	3950	CG2	ILE	C	54	60.999	111.441	-10.361	1.00	38.42	6
ATOM	3951	CG1	ILE	C	54	63.335	111.442	-9.418	1.00	38.13	6
ATOM	3952	CD1	ILE	C	54	64.270	111.795	-8.272	1.00	35.57	6
ATOM	3953	C	ILE	C	54	62.472	114.127	-9.753	1.00	59.79	6
ATOM	3954	O	ILE	C	54	62.206	114.152	-10.955	1.00	59.16	8
ATOM	3955	N	GLU	C	55	63.420	114.871	-9.199	1.00	61.34	7
ATOM	3956	CA	GLU	C	55	64.285	115.720	-9.988	1.00	63.19	6
ATOM	3957	CB	GLU	C	55	65.047	116.698	-9.085	1.00	88.10	6
ATOM	3958	CG	GLU	C	55	64.181	117.597	-8.191	1.00	89.00	6
ATOM	3959	CD	GLU	C	55	63.485	116.848	-7.068	1.00	89.60	6
ATOM	3960	OE1	GLU	C	55	64.139	116.016	-6.408	1.00	90.86	8
ATOM	3961	OE2	GLU	C	55	62.288	117.106	-6.833	1.00	88.74	8
ATOM	3962	C	GLU	C	55	65.256	114.720	-10.603	1.00	64.85	6
ATOM	3963	O	GLU	C	55	64.879	113.577	-10.856	1.00	65.18	8
ATOM	3964	N	GLU	C	56	66.501	115.128	-10.824	1.00	154.58	7
ATOM	3965	CA	GLU	C	56	67.494	114.226	-11.397	1.00	157.05	6
ATOM	3966	CB	GLU	C	56	67.211	113.985	-12.881	1.00	124.00	6
ATOM	3967	CG	GLU	C	56	67.245	115.244	-13.718	1.00	125.79	6

ATOM	3968	CD	GLU	C	56	66.159	116.225	-13.323	1.00127.18	6
ATOM	3969	OE1	GLU	C	56	64.979	115.979	-13.655	1.00127.61	8
ATOM	3970	OE2	GLU	C	56	66.484	117.239	-12.667	1.00127.56	8
ATOM	3971	C	GLU	C	56	68.891	114.795	-11.240	1.00158.22	6
ATOM	3972	O	GLU	C	56	69.172	115.529	-10.294	1.00158.76	8
ATOM	3973	N	GLY	C	57	69.765	114.445	-12.176	1.00103.07	7
ATOM	3974	CA	GLY	C	57	71.129	114.932	-12.130	1.00104.55	6
ATOM	3975	C	GLY	C	57	71.238	116.354	-12.641	1.00105.62	6
ATOM	3976	O	GLY	C	57	70.732	116.685	-13.720	1.00106.41	8
ATOM	3977	N	ALA	C	58	71.898	117.202	-11.860	1.00132.92	7
ATOM	3978	CA	ALA	C	58	72.075	118.592	-12.240	1.00133.77	6
ATOM	3979	CB	ALA	C	58	72.757	118.657	-13.590	1.00 19.77	6
ATOM	3980	C	ALA	C	58	70.722	119.303	-12.289	1.00134.75	6
ATOM	3981	O	ALA	C	58	69.912	119.053	-13.187	1.00134.98	8
ATOM	3982	N	LYS	C	59	70.492	120.188	-11.318	1.00156.20	7
ATOM	3983	CA	LYS	C	59	69.246	120.950	-11.200	1.00157.09	6
ATOM	3984	CB	LYS	C	59	69.438	122.137	-10.246	1.00107.35	6
ATOM	3985	CG	LYS	C	59	69.663	121.752	-8.784	1.00107.22	6
ATOM	3986	CD	LYS	C	59	69.714	122.989	-7.877	1.00106.92	6
ATOM	3987	CE	LYS	C	59	69.795	122.617	-6.393	1.00106.52	6
ATOM	3988	NZ	LYS	C	59	69.818	123.818	-5.509	1.00105.42	7
ATOM	3989	C	LYS	C	59	68.684	121.463	-12.524	1.00157.61	6
ATOM	3990	O	LYS	C	59	69.074	122.530	-13.006	1.00157.43	8
ATOM	3991	N	GLY	C	60	67.752	120.701	-13.094	1.00129.14	7
ATOM	3992	CA	GLY	C	60	67.137	121.081	-14.353	1.00129.03	6
ATOM	3993	C	GLY	C	60	68.148	121.434	-15.429	1.00129.06	6
ATOM	3994	O	GLY	C	60	68.306	122.606	-15.779	1.00129.14	8
ATOM	3995	N	LYS	C	61	68.832	120.419	-15.952	1.00189.07	7
ATOM	3996	CA	LYS	C	61	69.837	120.612	-16.997	1.00188.42	6
ATOM	3997	CB	LYS	C	61	71.193	120.067	-16.531	1.00 95.41	6
ATOM	3998	CG	LYS	C	61	71.836	120.846	-15.397	1.00 95.06	6
ATOM	3999	CD	LYS	C	61	72.555	122.091	-15.882	1.00 94.98	6
ATOM	4000	CE	LYS	C	61	73.320	122.758	-14.738	1.00 94.81	6
ATOM	4001	NZ	LYS	C	61	74.117	123.930	-15.204	1.00 94.67	7
ATOM	4002	C	LYS	C	61	69.433	119.927	-18.304	1.00187.52	6
ATOM	4003	O	LYS	C	61	69.906	120.301	-19.380	1.00187.21	8
ATOM	4004	N	GLY	C	62	68.561	118.927	-18.207	1.00173.41	7
ATOM	4005	CA	GLY	C	62	68.121	118.212	-19.394	1.00172.55	6
ATOM	4006	C	GLY	C	62	66.715	117.645	-19.301	1.00171.94	6
ATOM	4007	O	GLY	C	62	65.782	118.334	-18.882	1.00172.35	8
ATOM	4008	N	GLY	C	63	66.562	116.382	-19.692	1.00106.71	7
ATOM	4009	CA	GLY	C	63	65.255	115.752	-19.651	1.00104.35	6
ATOM	4010	C	GLY	C	63	65.002	114.888	-18.430	1.00102.47	6
ATOM	4011	O	GLY	C	63	65.893	114.685	-17.604	1.00102.37	8
ATOM	4012	N	LEU	C	64	63.769	114.394	-18.330	1.00153.39	7
ATOM	4013	CA	LEU	C	64	63.305	113.529	-17.240	1.00151.74	6
ATOM	4014	CB	LEU	C	64	64.362	112.473	-16.911	1.00130.45	6
ATOM	4015	CG	LEU	C	64	64.731	111.550	-18.072	1.00129.19	6
ATOM	4016	CD1	LEU	C	64	65.827	110.609	-17.627	1.00128.90	6
ATOM	4017	CD2	LEU	C	64	63.509	110.775	-18.533	1.00129.76	6
ATOM	4018	C	LEU	C	64	62.891	114.261	-15.965	1.00150.41	6
ATOM	4019	O	LEU	C	64	63.715	114.536	-15.097	1.00150.11	8
ATOM	4020	N	VAL	C	65	61.599	114.564	-15.864	1.00 94.25	7
ATOM	4021	CA	VAL	C	65	61.043	115.254	-14.703	1.00 93.03	6
ATOM	4022	CB	VAL	C	65	60.210	116.477	-15.131	1.00 49.35	6
ATOM	4023	CG1	VAL	C	65	59.347	116.972	-13.990	1.00 48.78	6

ATOM	4024	CG2	VAL	C	65	61.131	117.571	-15.572	1.00	49.43	6
ATOM	4025	C	VAL	C	65	60.142	114.304	-13.925	1.00	93.26	6
ATOM	4026	O	VAL	C	65	60.385	114.015	-12.747	1.00	93.73	8
ATOM	4027	N	LEU	C	66	59.099	113.828	-14.601	1.00	62.83	7
ATOM	4028	CA	LEU	C	66	58.137	112.902	-14.017	1.00	60.91	6
ATOM	4029	CB	LEU	C	66	58.833	111.620	-13.543	1.00	55.02	6
ATOM	4030	CG	LEU	C	66	57.939	110.554	-12.900	1.00	54.34	6
ATOM	4031	CD1	LEU	C	66	56.776	110.172	-13.817	1.00	53.57	6
ATOM	4032	CD2	LEU	C	66	58.798	109.350	-12.578	1.00	54.77	6
ATOM	4033	C	LEU	C	66	57.368	113.504	-12.867	1.00	59.76	6
ATOM	4034	O	LEU	C	66	57.903	113.717	-11.780	1.00	58.86	8
ATOM	4035	N	ASP	C	67	56.101	113.786	-13.125	1.00	83.71	7
ATOM	4036	CA	ASP	C	67	55.234	114.338	-12.111	1.00	84.15	6
ATOM	4037	CB	ASP	C	67	54.619	115.662	-12.588	1.00	162.72	6
ATOM	4038	CG	ASP	C	67	54.463	115.733	-14.100	1.00	164.62	6
ATOM	4039	OD1	ASP	C	67	55.465	115.526	-14.817	1.00	164.61	8
ATOM	4040	OD2	ASP	C	67	53.339	116.011	-14.570	1.00	166.53	8
ATOM	4041	C	ASP	C	67	54.164	113.299	-11.820	1.00	83.51	6
ATOM	4042	O	ASP	C	67	54.057	112.295	-12.531	1.00	83.41	8
ATOM	4043	N	PHE	C	68	53.390	113.526	-10.765	1.00	28.71	7
ATOM	4044	CA	PHE	C	68	52.343	112.596	-10.385	1.00	28.07	6
ATOM	4045	CB	PHE	C	68	52.508	112.183	-8.912	1.00	91.06	6
ATOM	4046	CG	PHE	C	68	53.892	111.617	-8.571	1.00	92.16	6
ATOM	4047	CD1	PHE	C	68	55.010	112.452	-8.483	1.00	92.24	6
ATOM	4048	CD2	PHE	C	68	54.069	110.251	-8.321	1.00	91.63	6
ATOM	4049	CE1	PHE	C	68	56.269	111.932	-8.150	1.00	91.63	6
ATOM	4050	CE2	PHE	C	68	55.327	109.731	-7.989	1.00	90.24	6
ATOM	4051	CZ	PHE	C	68	56.422	110.571	-7.904	1.00	90.55	6
ATOM	4052	C	PHE	C	68	50.983	113.236	-10.621	1.00	27.88	6
ATOM	4053	O	PHE	C	68	50.844	114.454	-10.543	1.00	26.24	8
ATOM	4054	N	LEU	C	69	49.993	112.405	-10.941	1.00	131.88	7
ATOM	4055	CA	LEU	C	69	48.627	112.862	-11.193	1.00	132.72	6
ATOM	4056	CB	LEU	C	69	48.188	112.515	-12.617	1.00	63.15	6
ATOM	4057	CG	LEU	C	69	49.022	112.904	-13.834	1.00	63.27	6
ATOM	4058	CD1	LEU	C	69	48.220	112.557	-15.096	1.00	62.57	6
ATOM	4059	CD2	LEU	C	69	49.365	114.391	-13.795	1.00	63.36	6
ATOM	4060	C	LEU	C	69	47.668	112.176	-10.221	1.00	133.30	6
ATOM	4061	O	LEU	C	69	47.779	112.332	-9.002	1.00	134.07	8
ATOM	4062	N	GLU	C	70	46.730	111.410	-10.775	1.00	73.64	7
ATOM	4063	CA	GLU	C	70	45.758	110.691	-9.966	1.00	74.13	6
ATOM	4064	CB	GLU	C	70	44.628	110.115	-10.825	1.00	82.92	6
ATOM	4065	CG	GLU	C	70	44.808	110.252	-12.315	1.00	84.69	6
ATOM	4066	CD	GLU	C	70	44.267	111.559	-12.825	1.00	85.45	6
ATOM	4067	OE1	GLU	C	70	44.775	112.616	-12.402	1.00	85.54	8
ATOM	4068	OE2	GLU	C	70	43.328	111.525	-13.643	1.00	86.32	8
ATOM	4069	C	GLU	C	70	46.387	109.546	-9.192	1.00	73.87	6
ATOM	4070	O	GLU	C	70	47.593	109.341	-9.202	1.00	74.29	8
ATOM	4071	N	TYR	C	71	45.525	108.794	-8.534	1.00	41.60	7
ATOM	4072	CA	TYR	C	71	45.908	107.657	-7.720	1.00	41.39	6
ATOM	4073	CB	TYR	C	71	46.016	108.097	-6.254	1.00	96.85	6
ATOM	4074	CG	TYR	C	71	44.711	108.649	-5.736	1.00	99.37	6
ATOM	4075	CD1	TYR	C	71	43.794	107.826	-5.096	1.00	100.19	6
ATOM	4076	CE1	TYR	C	71	42.526	108.288	-4.753	1.00	101.02	6
ATOM	4077	CD2	TYR	C	71	44.332	109.963	-6.011	1.00	100.76	6
ATOM	4078	CE2	TYR	C	71	43.061	110.437	-5.672	1.00	101.32	6
ATOM	4079	CZ	TYR	C	71	42.160	109.592	-5.045	1.00	101.36	6

ATOM	4080	OH	TYR	C	71	40.894	110.046	-4.732	1.00	100.65	8
ATOM	4081	C	TYR	C	71	44.721	106.725	-7.905	1.00	40.46	6
ATOM	4082	O	TYR	C	71	43.591	107.193	-8.038	1.00	39.16	8
ATOM	4083	N	ARG	C	72	44.944	105.419	-7.911	1.00	55.34	7
ATOM	4084	CA	ARG	C	72	43.812	104.538	-8.107	1.00	55.85	6
ATOM	4085	CB	ARG	C	72	43.737	104.137	-9.585	1.00	97.22	6
ATOM	4086	CG	ARG	C	72	42.499	103.325	-9.949	1.00	99.67	6
ATOM	4087	CD	ARG	C	72	42.447	102.996	-11.431	1.00	100.61	6
ATOM	4088	NE	ARG	C	72	41.858	101.682	-11.663	1.00	102.71	7
ATOM	4089	CZ	ARG	C	72	41.921	101.022	-12.815	1.00	104.14	6
ATOM	4090	NH1	ARG	C	72	42.548	101.551	-13.856	1.00	103.10	7
ATOM	4091	NH2	ARG	C	72	41.366	99.820	-12.921	1.00	105.69	7
ATOM	4092	C	ARG	C	72	43.736	103.295	-7.230	1.00	55.38	6
ATOM	4093	O	ARG	C	72	44.406	102.293	-7.487	1.00	55.48	8
ATOM	4094	N	ILE	C	73	42.924	103.368	-6.184	1.00	45.89	7
ATOM	4095	CA	ILE	C	73	42.716	102.212	-5.321	1.00	46.35	6
ATOM	4096	CB	ILE	C	73	42.063	102.615	-3.953	1.00	79.44	6
ATOM	4097	CG2	ILE	C	73	41.576	101.386	-3.206	1.00	79.78	6
ATOM	4098	CG1	ILE	C	73	43.061	103.371	-3.082	1.00	79.96	6
ATOM	4099	CD1	ILE	C	73	43.415	104.721	-3.606	1.00	82.19	6
ATOM	4100	C	ILE	C	73	41.683	101.486	-6.171	1.00	45.72	6
ATOM	4101	O	ILE	C	73	41.190	102.072	-7.124	1.00	45.98	8
ATOM	4102	N	GLY	C	74	41.347	100.238	-5.877	1.00	59.70	7
ATOM	4103	CA	GLY	C	74	40.325	99.618	-6.699	1.00	59.89	6
ATOM	4104	C	GLY	C	74	40.210	98.115	-6.685	1.00	59.31	6
ATOM	4105	O	GLY	C	74	40.582	97.464	-5.715	1.00	59.22	8
ATOM	4106	N	ASP	C	75	39.676	97.580	-7.780	1.00	75.15	7
ATOM	4107	CA	ASP	C	75	39.494	96.144	-7.966	1.00	74.49	6
ATOM	4108	CB	ASP	C	75	39.890	95.732	-9.426	1.00	60.41	6
ATOM	4109	CG	ASP	C	75	40.785	96.777	-10.166	1.00	61.12	6
ATOM	4110	OD1	ASP	C	75	40.351	97.924	-10.406	1.00	61.97	8
ATOM	4111	OD2	ASP	C	75	41.926	96.433	-10.540	1.00	60.97	8
ATOM	4112	C	ASP	C	75	40.230	95.254	-6.930	1.00	73.41	6
ATOM	4113	O	ASP	C	75	41.259	94.642	-7.233	1.00	73.61	8
ATOM	4114	N	PRO	C	76	39.690	95.157	-5.697	1.00	53.20	7
ATOM	4115	CD	PRO	C	76	38.342	95.596	-5.308	1.00	76.69	6
ATOM	4116	CA	PRO	C	76	40.293	94.349	-4.626	1.00	52.08	6
ATOM	4117	CB	PRO	C	76	39.281	94.456	-3.495	1.00	75.29	6
ATOM	4118	CG	PRO	C	76	38.002	94.598	-4.222	1.00	76.95	6
ATOM	4119	C	PRO	C	76	40.535	92.907	-5.039	1.00	50.99	6
ATOM	4120	O	PRO	C	76	39.833	92.378</				



ATOM	4136	CZ	PHE	C	78	43.680	85.216	-4.537	1.00	40.97	6
ATOM	4137	C	PHE	C	78	38.513	88.571	-2.478	1.00	104.94	6
ATOM	4138	O	PHE	C	78	37.586	89.119	-3.068	1.00	106.80	8
ATOM	4139	N	SER	C	79	38.510	88.331	-1.170	1.00	30.96	7
ATOM	4140	CA	SER	C	79	37.382	88.729	-0.336	1.00	31.37	6
ATOM	4141	CB	SER	C	79	36.118	88.019	-0.803	1.00	97.02	6
ATOM	4142	OG	SER	C	79	36.158	86.651	-0.430	1.00	95.83	8
ATOM	4143	C	SER	C	79	37.556	88.437	1.145	1.00	32.21	6
ATOM	4144	O	SER	C	79	38.066	87.393	1.514	1.00	32.04	8
ATOM	4145	N	GLN	C	80	37.113	89.353	1.997	1.00	71.63	7
ATOM	4146	CA	GLN	C	80	37.202	89.121	3.429	1.00	73.84	6
ATOM	4147	CB	GLN	C	80	36.353	90.134	4.188	1.00	75.43	6
ATOM	4148	CG	GLN	C	80	36.884	91.544	4.141	1.00	75.54	6
ATOM	4149	CD	GLN	C	80	36.155	92.451	5.104	1.00	75.38	6
ATOM	4150	OE1	GLN	C	80	35.547	91.989	6.067	1.00	74.86	8
ATOM	4151	NE2	GLN	C	80	36.227	93.752	4.862	1.00	75.75	7
ATOM	4152	C	GLN	C	80	36.653	87.715	3.660	1.00	74.89	6
ATOM	4153	O	GLN	C	80	35.756	87.278	2.936	1.00	74.90	8
ATOM	4154	N	ASP	C	81	37.184	87.016	4.661	1.00	54.21	7
ATOM	4155	CA	ASP	C	81	36.764	85.645	4.961	1.00	55.86	6
ATOM	4156	CB	ASP	C	81	35.256	85.457	4.708	1.00	95.24	6
ATOM	4157	CG	ASP	C	81	34.424	85.514	5.985	1.00	96.12	6
ATOM	4158	OD1	ASP	C	81	33.181	85.604	5.875	1.00	95.54	8
ATOM	4159	OD2	ASP	C	81	35.001	85.453	7.095	1.00	96.33	8
ATOM	4160	C	ASP	C	81	37.560	84.738	4.031	1.00	56.84	6
ATOM	4161	O	ASP	C	81	38.147	83.743	4.462	1.00	57.38	8
ATOM	4162	N	GLU	C	82	37.568	85.097	2.749	1.00	54.96	7
ATOM	4163	CA	GLU	C	82	38.301	84.354	1.729	1.00	56.17	6
ATOM	4164	CB	GLU	C	82	37.992	84.933	0.347	1.00	93.25	6
ATOM	4165	CG	GLU	C	82	38.317	84.045	-0.837	1.00	95.92	6
ATOM	4166	CD	GLU	C	82	38.033	84.733	-2.169	1.00	97.60	6
ATOM	4167	OE1	GLU	C	82	37.052	85.501	-2.254	1.00	96.68	8
ATOM	4168	OE2	GLU	C	82	38.783	84.497	-3.142	1.00	99.04	8
ATOM	4169	C	GLU	C	82	39.773	84.567	2.062	1.00	56.43	6
ATOM	4170	O	GLU	C	82	40.643	83.786	1.670	1.00	56.69	8
ATOM	4171	N	CYS	C	83	40.035	85.643	2.800	1.00	46.10	7
ATOM	4172	CA	CYS	C	83	41.387	85.992	3.195	1.00	46.27	6
ATOM	4173	CB	CYS	C	83	41.488	87.491	3.473	1.00	42.68	6
ATOM	4174	SG	CYS	C	83	42.080	88.510	2.098	1.00	46.55	16
ATOM	4175	C	CYS	C	83	41.767	85.219	4.435	1.00	46.32	6
ATOM	4176	O	CYS	C	83	42.624	84.341	4.384	1.00		

ATOM	4192	CD	GLU	C	85	37.971	79.454	3.741	1.00116.33	6
ATOM	4193	OE1	GLU	C	85	37.566	79.951	2.665	1.00117.61	8
ATOM	4194	OE2	GLU	C	85	37.243	78.768	4.491	1.00118.24	8
ATOM	4195	C	GLU	C	85	42.190	81.090	4.724	1.00 48.87	6
ATOM	4196	O	GLU	C	85	42.891	80.238	5.268	1.00 48.42	8
ATOM	4197	N	LYS	C	86	42.542	81.755	3.623	1.00 42.41	7
ATOM	4198	CA	LYS	C	86	43.788	81.515	2.891	1.00 41.09	6
ATOM	4199	CB	LYS	C	86	43.529	81.694	1.397	1.00 51.50	6
ATOM	4200	CG	LYS	C	86	42.664	80.608	0.806	1.00 51.79	6
ATOM	4201	CD	LYS	C	86	42.216	80.915	-0.609	1.00 52.63	6
ATOM	4202	CE	LYS	C	86	41.368	79.761	-1.135	1.00 53.06	6
ATOM	4203	NZ	LYS	C	86	40.609	80.092	-2.375	1.00 52.14	7
ATOM	4204	C	LYS	C	86	44.974	82.391	3.312	1.00 40.46	6
ATOM	4205	O	LYS	C	86	45.927	82.576	2.541	1.00 39.36	8
ATOM	4206	N	ASP	C	87	44.912	82.909	4.541	1.00 49.99	7
ATOM	4207	CA	ASP	C	87	45.959	83.770	5.094	1.00 48.35	6
ATOM	4208	CB	ASP	C	87	47.226	82.961	5.387	1.00 56.86	6
ATOM	4209	CG	ASP	C	87	47.079	82.066	6.599	1.00 56.33	6
ATOM	4210	OD1	ASP	C	87	46.566	82.549	7.625	1.00 56.05	8
ATOM	4211	OD2	ASP	C	87	47.490	80.887	6.533	1.00 57.01	8
ATOM	4212	C	ASP	C	87	46.309	84.936	4.177	1.00 47.56	6
ATOM	4213	O	ASP	C	87	47.477	85.287	4.018	1.00 47.08	8
ATOM	4214	N	LEU	C	88	45.293	85.541	3.578	1.00 38.58	7
ATOM	4215	CA	LEU	C	88	45.526	86.659	2.690	1.00 37.19	6
ATOM	4216	CB	LEU	C	88	44.652	86.529	1.451	1.00 93.94	6
ATOM	4217	CG	LEU	C	88	44.885	85.243	0.658	1.00 94.32	6
ATOM	4218	CD1	LEU	C	88	44.093	85.334	-0.633	1.00 95.01	6
ATOM	4219	CD2	LEU	C	88	46.372	85.040	0.364	1.00 94.63	6
ATOM	4220	C	LEU	C	88	45.277	87.994	3.376	1.00 36.02	6
ATOM	4221	O	LEU	C	88	44.302	88.161	4.098	1.00 35.88	8
ATOM	4222	N	THR	C	89	46.184	88.935	3.146	1.00 29.88	7
ATOM	4223	CA	THR	C	89	46.094	90.259	3.731	1.00 29.65	6
ATOM	4224	CB	THR	C	89	47.479	90.955	3.737	1.00118.66	6
ATOM	4225	OG1	THR	C	89	48.448	90.092	4.345	1.00120.67	8
ATOM	4226	CG2	THR	C	89	47.422	92.265	4.515	1.00119.01	6
ATOM	4227	C	THR	C	89	45.129	91.101	2.906	1.00 28.47	6
ATOM	4228	O	THR	C	89	45.539	91.743	1.946	1.00 28.45	8
ATOM	4229	N	TYR	C	90	43.852	91.089	3.281	1.00 32.04	7
ATOM	4230	CA	TYR	C	90	42.807	91.852	2.595	1.00 30.45	6
ATOM	4231	CB	TYR	C	90	41.619	92.044	3.536	1.00 59.69	6
ATOM	4232	CG	TYR	C	90	40.472	92.807	2.931	1.00 58.99	6
ATOM	4233	CD1	TYR	C	90	39.680	92.242	1.938	1.00 58.51	6
ATOM	4234	CE1	TYR	C	90	38.638	92.949	1.364	1.00 58.19	6
ATOM	4235	CD2	TYR	C	90	40.189	94.101	3.336	1.00 58.79	6
ATOM	4236	CE2	TYR	C	90	39.152	94.813	2.769	1.00 58.09	6
ATOM	4237	CZ	TYR	C	90	38.382	94.234	1.785	1.00 57.73	6
ATOM	4238	OH	TYR	C	90	37.358	94.956	1.225	1.00 58.50	8
ATOM	4239	C	TYR	C	90	43.308	93.218	2.149	1.00 30.34	6
ATOM	4240	O	TYR	C	90	43.250	94.183	2.917	1.00 29.90	8
ATOM	4241	N	GLN	C	91	43.789	93.298	0.909	1.00 80.36	7
ATOM	4242	CA	GLN	C	91	44.322	94.540	0.357	1.00 80.21	6
ATOM	4243	CB	GLN	C	91	45.760	94.330	-0.108	1.00 69.15	6
ATOM	4244	CG	GLN	C	91	46.719	93.994	1.005	1.00 70.45	6
ATOM	4245	CD	GLN	C	91	48.044	93.506	0.481	1.00 71.04	6
ATOM	4246	OE1	GLN	C	91	48.086	92.670	-0.422	1.00 70.94	8
ATOM	4247	NE2	GLN	C	91	49.140	94.014	1.049	1.00 71.35	7

ATOM	4248	C	GLN	C	91	43.506	95.051	-0.812	1.00	79.27	6
ATOM	4249	O	GLN	C	91	42.302	94.845	-0.875	1.00	79.86	8
ATOM	4250	N	ALA	C	92	44.180	95.728	-1.734	1.00	69.38	7
ATOM	4251	CA	ALA	C	92	43.550	96.274	-2.931	1.00	69.05	6
ATOM	4252	CB	ALA	C	92	42.455	97.270	-2.552	1.00	13.87	6
ATOM	4253	C	ALA	C	92	44.610	96.946	-3.805	1.00	68.88	6
ATOM	4254	O	ALA	C	92	45.516	97.616	-3.305	1.00	68.52	8
ATOM	4255	N	PRO	C	93	44.507	96.771	-5.128	1.00	48.77	7
ATOM	4256	CD	PRO	C	93	43.396	96.091	-5.813	1.00	110.54	6
ATOM	4257	CA	PRO	C	93	45.441	97.342	-6.100	1.00	48.32	6
ATOM	4258	CB	PRO	C	93	44.984	96.721	-7.413	1.00	110.46	6
ATOM	4259	CG	PRO	C	93	43.506	96.638	-7.219	1.00	111.39	6
ATOM	4260	C	PRO	C	93	45.443	98.869	-6.162	1.00	47.83	6
ATOM	4261	O	PRO	C	93	44.432	99.506	-6.501	1.00	48.40	8
ATOM	4262	N	LEU	C	94	46.589	99.453	-5.839	1.00	48.05	7
ATOM	4263	CA	LEU	C	94	46.722	100.894	-5.878	1.00	46.69	6
ATOM	4264	CB	LEU	C	94	47.059	101.446	-4.485	1.00	79.69	6
ATOM	4265	CG	LEU	C	94	47.462	102.932	-4.429	1.00	79.83	6
ATOM	4266	CD1	LEU	C	94	46.313	103.800	-4.898	1.00	79.99	6
ATOM	4267	CD2	LEU	C	94	47.854	103.318	-3.022	1.00	79.90	6
ATOM	4268	C	LEU	C	94	47.796	101.337	-6.859	1.00	45.26	6
ATOM	4269	O	LEU	C	94	48.969	101.386	-6.503	1.00	44.54	8
ATOM	4270	N	TYR	C	95	47.416	101.644	-8.096	1.00	34.68	7
ATOM	4271	CA	TYR	C	95	48.411	102.135	-9.042	1.00	34.95	6
ATOM	4272	CB	TYR	C	95	48.266	101.458	-10.425	1.00	51.57	6
ATOM	4273	CG	TYR	C	95	47.026	100.607	-10.637	1.00	52.57	6
ATOM	4274	CD1	TYR	C	95	45.768	101.190	-10.768	1.00	53.23	6
ATOM	4275	CE1	TYR	C	95	44.624	100.414	-10.987	1.00	52.69	6
ATOM	4276	CD2	TYR	C	95	47.118	99.214	-10.726	1.00	53.25	6
ATOM	4277	CE2	TYR	C	95	45.975	98.418	-10.939	1.00	53.54	6
ATOM	4278	CZ	TYR	C	95	44.725	99.030	-11.069	1.00	52.95	6
ATOM	4279	OH	TYR	C	95	43.579	98.269	-11.273	1.00	53.39	8
ATOM	4280	C	TYR	C	95	48.287	103.675	-9.148	1.00	34.90	6
ATOM	4281	O	TYR	C	95	47.259	104.244	-8.759	1.00	33.96	8
ATOM	4282	N	ALA	C	96	49.333	104.342	-9.647	1.00	29.90	7
ATOM	4283	CA	ALA	C	96	49.324	105.802	-9.780	1.00	31.71	6
ATOM	4284	CB	ALA	C	96	50.085	106.414	-8.621	1.00	108.85	6
ATOM	4285	C	ALA	C	96	49.881	106.341	-11.109	1.00	33.12	6
ATOM	4286	O	ALA	C	96	51.021	106.065	-11.468	1.00	33.20	8
ATOM	4287	N	ARG	C	97	49.077	107.144	-11.807	1.00	56.27	7
ATOM	4288	CA	ARG	C	97	49.432	107.744	-13.108	1.00	57.36	6
ATOM	4289	CB	ARG	C	97	48.184	108.368	-13.735	1.00	69.99	6
ATOM	4290	CG	ARG	C	97	46.984	107.450	-13.842	1.00	71.50	6
ATOM	4291	CD	ARG	C	97	45.935	108.071	-14.752	1.00	72.07	6
ATOM	4292	NE	ARG	C	97	46.567	108.672	-15.922	1.00	73.73	7
ATOM	4293	CZ	ARG	C	97	45.930	108.991	-17.041	1.00	74.74	6
ATOM	4294	NH1	ARG	C	97	44.629	108.762	-17.151	1.00	75.60	7
ATOM	4295	NH2	ARG	C	97	46.596	109.540	-18.049	1.00	74.96	7
ATOM	4296	C	ARG	C	97	50.528	108.823	-13.116	1.00	57.68	6
ATOM	4297	O	ARG	C	97	50.278	109.958	-12.710	1.00	56.82	8
ATOM	4298	N	LEU	C	98	51.716	108.495	-13.618	1.00	102.03	7
ATOM	4299	CA	LEU	C	98	52.818	109.467	-13.668	1.00	103.88	6
ATOM	4300	CB	LEU	C	98	54.054	108.888	-12.963	1.00	55.34	6
ATOM	4301	CG	LEU	C	98	53.766	107.917	-11.803	1.00	55.72	6
ATOM	4302	CD1	LEU	C	98	55.067	107.471	-11.165	1.00	56.45	6
ATOM	4303	CD2	LEU	C	98	52.866	108.572	-10.770	1.00	54.94	6

ATOM	4304	C	LEU	C	98	53.151	109.833	-15.125	1.00104.43	6
ATOM	4305	O	LEU	C	98	52.603	109.236	-16.050	1.00105.22	8
ATOM	4306	N	GLN	C	99	54.034	110.810	-15.332	1.00 65.41	7
ATOM	4307	CA	GLN	C	99	54.407	111.243	-16.688	1.00 65.55	6
ATOM	4308	CB	GLN	C	99	53.305	112.132	-17.289	1.00 54.10	6
ATOM	4309	CG	GLN	C	99	52.742	113.191	-16.329	1.00 54.45	6
ATOM	4310	CD	GLN	C	99	51.745	114.173	-16.975	1.00 54.22	6
ATOM	4311	OE1	GLN	C	99	50.946	113.799	-17.836	1.00 53.31	8
ATOM	4312	NE2	GLN	C	99	51.781	115.432	-16.530	1.00 53.03	7
ATOM	4313	C	GLN	C	99	55.724	112.009	-16.719	1.00 66.35	6
ATOM	4314	O	GLN	C	99	55.746	113.204	-16.432	1.00 67.40	8
ATOM	4315	N	LEU	C	100	56.815	111.337	-17.083	1.00 57.89	7
ATOM	4316	CA	LEU	C	100	58.134	111.988	-17.121	1.00 58.25	6
ATOM	4317	CB	LEU	C	100	59.253	110.949	-17.182	1.00 58.65	6
ATOM	4318	CG	LEU	C	100	58.824	109.541	-17.579	1.00 59.06	6
ATOM	4319	CD1	LEU	C	100	58.250	109.558	-18.983	1.00 59.44	6
ATOM	4320	CD2	LEU	C	100	60.013	108.607	-17.468	1.00 58.33	6
ATOM	4321	C	LEU	C	100	58.312	112.984	-18.247	1.00 59.20	6
ATOM	4322	O	LEU	C	100	57.903	112.741	-19.382	1.00 59.43	8
ATOM	4323	N	ILE	C	101	58.931	114.113	-17.920	1.00 72.44	7
ATOM	4324	CA	ILE	C	101	59.157	115.174	-18.891	1.00 74.12	6
ATOM	4325	CB	ILE	C	101	58.997	116.566	-18.227	1.00 59.88	6
ATOM	4326	CG2	ILE	C	101	58.873	117.647	-19.292	1.00 59.71	6
ATOM	4327	CG1	ILE	C	101	57.758	116.584	-17.326	1.00 60.33	6
ATOM	4328	CD1	ILE	C	101	56.461	116.261	-18.039	1.00 61.69	6
ATOM	4329	C	ILE	C	101	60.563	115.050	-19.479	1.00 75.54	6
ATOM	4330	O	ILE	C	101	61.377	114.275	-18.986	1.00 75.14	8
ATOM	4331	N	HIS	C	102	60.835	115.810	-20.538	1.00 74.04	7
ATOM	4332	CA	HIS	C	102	62.136	115.798	-21.202	1.00 75.31	6
ATOM	4333	CB	HIS	C	102	62.010	115.223	-22.619	1.00 83.57	6
ATOM	4334	CG	HIS	C	102	61.650	113.771	-22.670	1.00 84.63	6
ATOM	4335	CD2	HIS	C	102	60.613	113.131	-23.260	1.00 84.82	6
ATOM	4336	ND1	HIS	C	102	62.438	112.788	-22.112	1.00 85.38	7
ATOM	4337	CE1	HIS	C	102	61.903	111.604	-22.358	1.00 85.82	6
ATOM	4338	NE2	HIS	C	102	60.795	111.784	-23.054	1.00 85.53	7
ATOM	4339	C	HIS	C	102	62.722	117.210	-21.321	1.00 75.87	6
ATOM	4340	O	HIS	C	102	62.562	118.066	-20.441	1.00 75.97	8
ATOM	4341	N	LYS	C	103	63.403	117.417	-22.443	1.00107.67	7
ATOM	4342	CA	LYS	C	103	64.040	118.676	-22.813	1.00108.49	6
ATOM	4343	CB	LYS	C	103	65.306	118.919	-21.983	1.00112.21	6
ATOM	4344	CG	LYS	C	103	65.185	120.085	-21.008	1.00113.26	6
ATOM	4345	CD	LYS	C	103	64.739	121.354	-21.723	1.00113.90	6
ATOM	4346	CE	LYS	C	103	64.448	122.480	-20.744	1.00114.86	6
ATOM	4347	NZ	LYS	C	103	63.685	123.587	-21.394	1.00115.30	7
ATOM	4348	C	LYS	C	103	64.404	118.508	-24.286	1.00108.56	6
ATOM	4349	O	LYS	C	103	65.258	119.216	-24.830	1.00108.10	8
ATOM	4350	N	ASP	C	104	63.727	117.548	-24.911	1.00 51.37	7
ATOM	4351	CA	ASP	C	104	63.928	117.196	-26.307	1.00 51.13	6
ATOM	4352	CB	ASP	C	104	65.022	116.117	-26.414	1.00 80.96	6
ATOM	4353	CG	ASP	C	104	64.948	115.070	-25.287	1.00 81.71	6
ATOM	4354	OD1	ASP	C	104	64.879	115.445	-24.095	1.00 81.16	8
ATOM	4355	OD2	ASP	C	104	64.979	113.858	-25.586	1.00 83.61	8
ATOM	4356	C	ASP	C	104	62.600	116.702	-26.880	1.00 51.12	6
ATOM	4357	O	ASP	C	104	62.547	115.702	-27.605	1.00 50.09	8
ATOM	4358	N	THR	C	105	61.532	117.422	-26.534	1.00153.67	7
ATOM	4359	CA	THR	C	105	60.174	117.115	-26.984	1.00156.13	6

ATOM	4360	CB	THR	C	105	60.056	117.234	-28.533	1.00130.99	6
ATOM	4361	OG1	THR	C	105	60.166	118.612	-28.915	1.00131.67	8
ATOM	4362	CG2	THR	C	105	58.714	116.681	-29.027	1.00130.54	6
ATOM	4363	C	THR	C	105	59.687	115.734	-26.547	1.00157.07	6
ATOM	4364	O	THR	C	105	60.143	114.707	-27.063	1.00157.74	8
ATOM	4365	N	GLY	C	106	58.753	115.718	-25.595	1.00118.28	7
ATOM	4366	CA	GLY	C	106	58.215	114.459	-25.111	1.00117.30	6
ATOM	4367	C	GLY	C	106	57.591	114.516	-23.730	1.00116.71	6
ATOM	4368	O	GLY	C	106	58.187	115.024	-22.778	1.00116.63	8
ATOM	4369	N	LEU	C	107	56.381	113.978	-23.628	1.00 62.99	7
ATOM	4370	CA	LEU	C	107	55.641	113.940	-22.373	1.00 62.42	6
ATOM	4371	CB	LEU	C	107	54.618	115.078	-22.345	1.00116.78	6
ATOM	4372	CG	LEU	C	107	55.122	116.457	-22.787	1.00116.42	6
ATOM	4373	CD1	LEU	C	107	53.989	117.459	-22.664	1.00116.42	6
ATOM	4374	CD2	LEU	C	107	56.303	116.890	-21.940	1.00116.89	6
ATOM	4375	C	LEU	C	107	54.931	112.583	-22.236	1.00 62.45	6
ATOM	4376	O	LEU	C	107	53.711	112.475	-22.414	1.00 61.96	8
ATOM	4377	N	ILE	C	108	55.717	111.557	-21.919	1.00 85.98	7
ATOM	4378	CA	ILE	C	108	55.233	110.187	-21.759	1.00 86.51	6
ATOM	4379	CB	ILE	C	108	56.420	109.207	-21.687	1.00 53.58	6
ATOM	4380	CG2	ILE	C	108	55.898	107.772	-21.651	1.00 53.89	6
ATOM	4381	CG1	ILE	C	108	57.363	109.437	-22.882	1.00 53.03	6
ATOM	4382	CD1	ILE	C	108	58.780	108.849	-22.723	1.00 51.80	6
ATOM	4383	C	ILE	C	108	54.393	110.024	-20.493	1.00 87.01	6
ATOM	4384	O	ILE	C	108	54.701	110.625	-19.460	1.00 86.91	8
ATOM	4385	N	LYS	C	109	53.347	109.200	-20.576	1.00 85.47	7
ATOM	4386	CA	LYS	C	109	52.447	108.964	-19.443	1.00 86.15	6
ATOM	4387	CB	LYS	C	109	51.192	109.833	-19.558	1.00111.00	6
ATOM	4388	CG	LYS	C	109	51.422	111.320	-19.741	1.00112.77	6
ATOM	4389	CD	LYS	C	109	50.091	112.067	-19.869	1.00112.61	6
ATOM	4390	CE	LYS	C	109	49.182	111.816	-18.664	1.00113.05	6
ATOM	4391	NZ	LYS	C	109	47.901	112.576	-18.738	1.00112.68	7
ATOM	4392	C	LYS	C	109	51.967	107.523	-19.336	1.00 86.43	6
ATOM	4393	O	LYS	C	109	50.963	107.180	-19.959	1.00 86.97	8
ATOM	4394	N	GLU	C	110	52.649	106.684	-18.555	1.00106.12	7
ATOM	4395	CA	GLU	C	110	52.199	105.300	-18.396	1.00106.53	6
ATOM	4396	CB	GLU	C	110	53.252	104.422	-17.717	1.00127.12	6
ATOM	4397	CG	GLU	C	110	54.279	103.813	-18.656	1.00129.05	6
ATOM	4398	CD	GLU	C	110	53.646	103.074	-19.818	1.00130.82	6
ATOM	4399	OE1	GLU	C	110	52.645	102.355	-19.594	1.00131.80	8
ATOM	4400	OE2	GLU	C	110	54.156	103.203	-20.955	1.00131.20	8
ATOM	440									

ATOM	4416	OE1	GLU	C	112	44.595	102.600	-12.786	1.00	48.02	8
ATOM	4417	OE2	GLU	C	112	44.494	104.242	-14.247	1.00	48.94	8
ATOM	4418	C	GLU	C	112	49.404	103.371	-13.320	1.00	62.52	6
ATOM	4419	O	GLU	C	112	49.667	103.729	-12.174	1.00	63.01	8
ATOM	4420	N	VAL	C	113	50.288	102.757	-14.106	1.00	27.09	7
ATOM	4421	CA	VAL	C	113	51.614	102.422	-13.601	1.00	26.32	6
ATOM	4422	CB	VAL	C	113	52.356	103.659	-13.080	1.00	46.96	6
ATOM	4423	CG1	VAL	C	113	53.837	103.351	-12.890	1.00	47.29	6
ATOM	4424	CG2	VAL	C	113	52.129	104.821	-14.026	1.00	47.74	6
ATOM	4425	C	VAL	C	113	51.334	101.515	-12.408	1.00	26.34	6
ATOM	4426	O	VAL	C	113	51.326	101.976	-11.264	1.00	26.39	8
ATOM	4427	N	PHE	C	114	51.078	100.236	-12.682	1.00	66.07	7
ATOM	4428	CA	PHE	C	114	50.770	99.254	-11.642	1.00	67.05	6
ATOM	4429	CB	PHE	C	114	50.988	97.828	-12.166	1.00	208.87	6
ATOM	4430	CG	PHE	C	114	50.006	97.420	-13.235	1.00	208.87	6
ATOM	4431	CD1	PHE	C	114	50.049	98.002	-14.500	1.00	208.87	6
ATOM	4432	CD2	PHE	C	114	49.014	96.480	-12.966	1.00	208.87	6
ATOM	4433	CE1	PHE	C	114	49.119	97.658	-15.478	1.00	208.87	6
ATOM	4434	CE2	PHE	C	114	48.078	96.129	-13.940	1.00	208.87	6
ATOM	4435	CZ	PHE	C	114	48.131	96.720	-15.198	1.00	208.87	6
ATOM	4436	C	PHE	C	114	51.626	99.516	-10.423	1.00	66.08	6
ATOM	4437	O	PHE	C	114	52.782	99.913	-10.552	1.00	65.65	8
ATOM	4438	N	LEU	C	115	51.075	99.284	-9.238	1.00	110.47	7
ATOM	4439	CA	LEU	C	115	51.837	99.586	-8.042	1.00	109.25	6
ATOM	4440	CB	LEU	C	115	51.597	101.061	-7.725	1.00	37.12	6
ATOM	4441	CG	LEU	C	115	52.362	101.840	-6.671	1.00	37.25	6
ATOM	4442	CD1	LEU	C	115	53.678	101.201	-6.264	1.00	37.12	6
ATOM	4443	CD2	LEU	C	115	52.597	103.196	-7.286	1.00	38.33	6
ATOM	4444	C	LEU	C	115	51.578	98.695	-6.820	1.00	108.54	6
ATOM	4445	O	LEU	C	115	51.036	97.589	-6.948	1.00	108.51	8
ATOM	4446	N	GLY	C	116	51.991	99.185	-5.647	1.00	46.71	7
ATOM	4447	CA	GLY	C	116	51.831	98.451	-4.404	1.00	44.97	6
ATOM	4448	C	GLY	C	116	50.410	98.185	-3.926	1.00	43.86	6
ATOM	4449	O	GLY	C	116	49.435	98.802	-4.368	1.00	43.96	8
ATOM	4450	N	HIS	C	117	50.301	97.245	-2.997	1.00	38.74	7
ATOM	4451	CA	HIS	C	117	49.020	96.864	-2.432	1.00	37.35	6
ATOM	4452	CB	HIS	C	117	49.010	95.360	-2.145	1.00	67.60	6
ATOM	4453	CG	HIS	C	117	48.884	94.510	-3.372	1.00	68.06	6
ATOM	4454	CD2	HIS	C	117	49.711	93.579	-3.899	1.00	67.77	6
ATOM	4455	ND1	HIS	C	117	47.778	94.549	-4.195	1.00	68.70	7
ATOM	4456	CE1	HIS	C	117	47.926	93.675	-5.173	1.00	67.88	6
ATOM	4457	NE2	HIS	C	117	49.091	93.074	-5.017	1.00	68.90	7
ATOM	4458	C	HIS	C	117	48.730	97.641	-1.160	1.00	35.72	6
ATOM	4459	O	HIS	C	117	49.639	97.971	-0.400	1.00	34.73	8
ATOM	4460	N	LEU	C	118	47.456	97.928	-0.931	1.00	74.84	7
ATOM	4461	CA	LEU	C	118	47.047	98.673	0.249	1.00	74.20	6
ATOM	4462	CB	LEU	C	118	46.449	100.027	-0.161	1.00	36.96	6
ATOM	4463	CG	LEU	C	118	45.850	101.004	0.861	1.00	36.31	6
ATOM	4464	CD1	LEU	C	118	45.481	102.272	0.131	1.00	36.65	6
ATOM	4465	CD2	LEU	C	118	44.619	100.426	1.531	1.00	35.26	6
ATOM	4466	C	LEU	C	118	46.017	97.889	1.037	1.00	73.30	6
ATOM	4467	O	LEU	C	118	44.989	97.482	0.492	1.00	73.60	8
ATOM	4468	N	PRO	C	119	46.292	97.637	2.326	1.00	28.71	7
ATOM	4469	CD	PRO	C	119	47.628	97.637	2.960	1.00	31.16	6
ATOM	4470	CA	PRO	C	119	45.306	96.892	3.119	1.00	27.70	6
ATOM	4471	CB	PRO	C	119	46.105	96.455	4.359	1.00	31.28	6

ATOM	4472	CG	PRO	C	119	47.319	97.367	4.403	1.00	29.88	6
ATOM	4473	C	PRO	C	119	44.068	97.752	3.434	1.00	27.37	6
ATOM	4474	O	PRO	C	119	44.170	98.906	3.855	1.00	26.16	8
ATOM	4475	N	LEU	C	120	42.894	97.197	3.194	1.00	46.27	7
ATOM	4476	CA	LEU	C	120	41.687	97.952	3.437	1.00	47.57	6
ATOM	4477	CB	LEU	C	120	40.616	97.551	2.443	1.00	61.98	6
ATOM	4478	CG	LEU	C	120	40.905	98.073	1.042	1.00	62.57	6
ATOM	4479	CD1	LEU	C	120	40.198	97.222	0.015	1.00	64.23	6
ATOM	4480	CD2	LEU	C	120	40.470	99.524	0.947	1.00	61.87	6
ATOM	4481	C	LEU	C	120	41.197	97.747	4.845	1.00	48.67	6
ATOM	4482	O	LEU	C	120	41.637	96.827	5.534	1.00	48.90	8
ATOM	4483	N	MET	C	121	40.292	98.624	5.271	1.00	42.57	7
ATOM	4484	CA	MET	C	121	39.718	98.581	6.614	1.00	43.86	6
ATOM	4485	CB	MET	C	121	39.714	100.003	7.225	1.00	46.78	6
ATOM	4486	CG	MET	C	121	39.464	100.086	8.744	1.00	49.57	6
ATOM	4487	SD	MET	C	121	38.990	101.748	9.383	1.00	52.53	16
ATOM	4488	CE	MET	C	121	40.558	102.447	9.830	1.00	54.56	6
ATOM	4489	C	MET	C	121	38.292	98.046	6.483	1.00	43.88	6
ATOM	4490	O	MET	C	121	37.494	98.558	5.705	1.00	44.11	8
ATOM	4491	N	THR	C	122	37.973	97.001	7.229	1.00	29.41	7
ATOM	4492	CA	THR	C	122	36.638	96.441	7.171	1.00	30.53	6
ATOM	4493	CB	THR	C	122	36.553	95.186	7.993	1.00	59.28	6
ATOM	4494	OG1	THR	C	122	37.695	94.376	7.717	1.00	59.40	8
ATOM	4495	CG2	THR	C	122	35.290	94.423	7.643	1.00	61.33	6
ATOM	4496	C	THR	C	122	35.622	97.438	7.723	1.00	31.12	6
ATOM	4497	O	THR	C	122	35.999	98.406	8.386	1.00	31.55	8
ATOM	4498	N	GLU	C	123	34.338	97.198	7.456	1.00	49.45	7
ATOM	4499	CA	GLU	C	123	33.262	98.074	7.934	1.00	49.84	6
ATOM	4500	CB	GLU	C	123	31.908	97.434	7.631	1.00	90.22	6
ATOM	4501	CG	GLU	C	123	30.716	98.334	7.902	1.00	92.04	6
ATOM	4502	CD	GLU	C	123	29.398	97.686	7.518	1.00	92.73	6
ATOM	4503	OE1	GLU	C	123	28.619	97.333	8.433	1.00	93.55	8
ATOM	4504	OE2	GLU	C	123	29.150	97.523	6.301	1.00	93.00	8
ATOM	4505	C	GLU	C	123	33.417	98.265	9.439	1.00	49.89	6
ATOM	4506	O	GLU	C	123	33.117	99.326	9.995	1.00	49.12	8
ATOM	4507	N	ASP	C	124	33.898	97.193	10.063	1.00	52.75	7
ATOM	4508	CA	ASP	C	124	34.159	97.086	11.496	1.00	52.67	6
ATOM	4509	CB	ASP	C	124	34.775	95.708	11.784	1.00	61.98	6
ATOM	4510	CG	ASP	C	124	34.826	95.382	13.260	1.00	64.87	6
ATOM	4511	OD1	ASP	C	124	34.951	96.323	14.071	1.00	67.98	8
ATOM	4512	OD2	ASP	C	124	34.752	94.182	13.612	1.00	66.35	8
ATOM	4513	C	ASP	C	124	35.116	98.183	11.968	1.00	50.94	6
ATOM	4514	O	ASP	C	124	35.043	98.633	13.118	1.00	50.05	8
ATOM	4515	N	GLY	C	125	36.025	98.590	11.083	1.00	62.59	7
ATOM	4516	CA	GLY	C	125	36.986	99.628	11.420	1.00	61.39	6
ATOM	4517	C	GLY	C	125	38.375	99.110	11.745	1.00	59.43	6
ATOM	4518	O	GLY	C	125	39.121	99.708	12.520	1.00	59.88	8
ATOM	4519	N	SER	C	126	38.733	97.995	11.133	1.00	77.36	7
ATOM	4520	CA	SER	C	126	40.030	97.394	11.372	1.00	73.95	6
ATOM	4521	CB	SER	C	126	39.883	96.359	12.492	1.00	13.87	6
ATOM	4522	OG	SER	C	126	38.551	95.856	12.538	1.00	13.87	8
ATOM	4523	C	SER	C	126	40.512	96.749	10.072	1.00	73.71	6
ATOM	4524	O	SER	C	126	39.938	96.992	9.008	1.00	75.22	8
ATOM	4525	N	PHE	C	127	41.570	95.948	10.138	1.00	28.88	7
ATOM	4526	CA	PHE	C	127	42.044	95.290	8.937	1.00	27.11	6
ATOM	4527	CB	PHE	C	127	43.339	95.927	8.455	1.00	51.61	6

ATOM	4528	CG	PHE	C	127	43.347	97.420	8.516	1.00	53.45	6
ATOM	4529	CD1	PHE	C	127	43.426	98.080	9.733	1.00	55.26	6
ATOM	4530	CD2	PHE	C	127	43.328	98.174	7.355	1.00	54.19	6
ATOM	4531	CE1	PHE	C	127	43.498	99.471	9.792	1.00	55.29	6
ATOM	4532	CE2	PHE	C	127	43.398	99.566	7.404	1.00	55.13	6
ATOM	4533	CZ	PHE	C	127	43.483	100.213	8.624	1.00	55.33	6
ATOM	4534	C	PHE	C	127	42.291	93.806	9.193	1.00	26.15	6
ATOM	4535	O	PHE	C	127	42.443	93.387	10.348	1.00	26.14	8
ATOM	4536	N	ILE	C	128	42.298	93.020	8.113	1.00	29.00	7
ATOM	4537	CA	ILE	C	128	42.588	91.583	8.164	1.00	27.66	6
ATOM	4538	CB	ILE	C	128	41.754	90.738	7.214	1.00	15.94	6
ATOM	4539	CG2	ILE	C	128	42.249	89.318	7.278	1.00	14.69	6
ATOM	4540	CG1	ILE	C	128	40.274	90.828	7.556	1.00	17.08	6
ATOM	4541	CD1	ILE	C	128	39.693	92.171	7.310	1.00	20.48	6
ATOM	4542	C	ILE	C	128	43.968	91.516	7.566	1.00	28.11	6
ATOM	4543	O	ILE	C	128	44.150	91.905	6.414	1.00	29.53	8
ATOM	4544	N	ILE	C	129	44.940	91.023	8.317	1.00	53.67	7
ATOM	4545	CA	ILE	C	129	46.284	90.964	7.780	1.00	52.88	6
ATOM	4546	CB	ILE	C	129	47.187	91.997	8.468	1.00	15.23	6
ATOM	4547	CG2	ILE	C	129	48.547	91.971	7.843	1.00	16.20	6
ATOM	4548	CG1	ILE	C	129	46.553	93.385	8.329	1.00	13.87	6
ATOM	4549	CD1	ILE	C	129	47.506	94.531	8.013	1.00	14.82	6
ATOM	4550	C	ILE	C	129	46.917	89.588	7.843	1.00	52.95	6
ATOM	4551	O	ILE	C	129	47.298	89.107	8.906	1.00	52.12	8
ATOM	4552	N	ASN	C	130	47.023	88.967	6.676	1.00	33.54	7
ATOM	4553	CA	ASN	C	130	47.596	87.641	6.540	1.00	34.43	6
ATOM	4554	CB	ASN	C	130	48.944	87.552	7.254	1.00	65.84	6
ATOM	4555	CG	ASN	C	130	49.953	88.539	6.706	1.00	66.87	6
ATOM	4556	OD1	ASN	C	130	50.326	88.488	5.531	1.00	66.73	8
ATOM	4557	ND2	ASN	C	130	50.396	89.453	7.557	1.00	66.85	7
ATOM	4558	C	ASN	C	130	46.640	86.613	7.098	1.00	34.18	6
ATOM	4559	O	ASN	C	130	47.036	85.501	7.438	1.00	35.03	8
ATOM	4560	N	GLY	C	131	45.373	86.992	7.191	1.00	27.94	7
ATOM	4561	CA	GLY	C	131	44.376	86.071	7.698	1.00	26.19	6
ATOM	4562	C	GLY	C	131	43.759	86.491	9.008	1.00	24.96	6
ATOM	4563	O	GLY	C	131	42.551	86.411	9.164	1.00	23.55	8
ATOM	4564	N	ALA	C	132	44.595	86.938	9.938	1.00	40.17	7
ATOM	4565	CA	ALA	C	132	44.150	87.381	11.256	1.00	40.65	6
ATOM	4566	CB	ALA	C	132	45.280	87.214	12.257	1.00	77.38	6
ATOM	4567	C	ALA	C	132	43.641	88.832	11.283	1.00	40.65	6
ATOM	4568	O	ALA	C	132	43.964					



ATOM	4584	NH1	ARG	C	134	50.173	92.749	13.668	1.00	58.08	7
ATOM	4585	NH2	ARG	C	134	49.741	91.211	15.332	1.00	60.44	7
ATOM	4586	C	ARG	C	134	43.570	94.828	13.643	1.00	28.37	6
ATOM	4587	O	ARG	C	134	42.817	95.160	12.719	1.00	28.20	8
ATOM	4588	N	VAL	C	135	43.906	95.621	14.656	1.00	23.37	7
ATOM	4589	CA	VAL	C	135	43.402	96.976	14.800	1.00	20.65	6
ATOM	4590	CB	VAL	C	135	42.484	97.063	16.037	1.00	13.87	6
ATOM	4591	CG1	VAL	C	135	41.236	97.848	15.700	1.00	13.87	6
ATOM	4592	CG2	VAL	C	135	42.127	95.653	16.528	1.00	13.87	6
ATOM	4593	C	VAL	C	135	44.584	97.953	14.953	1.00	20.23	6
ATOM	4594	O	VAL	C	135	45.553	97.664	15.641	1.00	19.42	8
ATOM	4595	N	ILE	C	136	44.509	99.099	14.294	1.00	17.38	7
ATOM	4596	CA	ILE	C	136	45.566	100.095	14.392	1.00	19.94	6
ATOM	4597	CB	ILE	C	136	45.684	100.894	13.088	1.00	37.79	6
ATOM	4598	CG2	ILE	C	136	46.695	102.030	13.252	1.00	39.14	6
ATOM	4599	CG1	ILE	C	136	46.090	99.953	11.957	1.00	39.94	6
ATOM	4600	CD1	ILE	C	136	47.387	99.226	12.220	1.00	42.63	6
ATOM	4601	C	ILE	C	136	45.308	101.071	15.548	1.00	20.26	6
ATOM	4602	O	ILE	C	136	44.535	102.020	15.407	1.00	18.99	8
ATOM	4603	N	VAL	C	137	45.964	100.824	16.682	1.00	25.21	7
ATOM	4604	CA	VAL	C	137	45.827	101.646	17.888	1.00	25.11	6
ATOM	4605	CB	VAL	C	137	46.507	100.985	19.088	1.00	16.86	6
ATOM	4606	CG1	VAL	C	137	46.279	101.804	20.338	1.00	15.96	6
ATOM	4607	CG2	VAL	C	137	45.983	99.583	19.255	1.00	16.90	6
ATOM	4608	C	VAL	C	137	46.454	103.003	17.684	1.00	25.80	6
ATOM	4609	O	VAL	C	137	47.591	103.111	17.244	1.00	26.80	8
ATOM	4610	N	SER	C	138	45.703	104.033	18.046	1.00	16.42	7
ATOM	4611	CA	SER	C	138	46.108	105.426	17.881	1.00	18.38	6
ATOM	4612	CB	SER	C	138	44.825	106.233	17.718	1.00	28.33	6
ATOM	4613	OG	SER	C	138	43.729	105.459	18.193	1.00	25.47	8
ATOM	4614	C	SER	C	138	46.982	106.007	18.998	1.00	20.62	6
ATOM	4615	O	SER	C	138	46.548	106.092	20.145	1.00	20.75	8
ATOM	4616	N	GLN	C	139	48.199	106.433	18.665	1.00	29.81	7
ATOM	4617	CA	GLN	C	139	49.080	106.970	19.698	1.00	33.75	6
ATOM	4618	CB	GLN	C	139	50.535	106.576	19.443	1.00	57.86	6
ATOM	4619	CG	GLN	C	139	51.270	107.377	18.388	1.00	59.42	6
ATOM	4620	CD	GLN	C	139	52.765	107.079	18.396	1.00	61.08	6
ATOM	4621	OE1	GLN	C	139	53.183	105.925	18.295	1.00	60.50	8
ATOM	4622	NE2	GLN	C	139	53.574	108.122	18.515	1.00	62.00	7
ATOM	4623	C	GLN	C	139	48.999	108.468	19.826	1.00	36.24	6
ATOM	4624	O	GLN	C	139	48.320	109.107	19.040	1.00	37.91	8
ATOM	4625	N	ILE	C	140	49.678	109.023	20.831	1.00	69.32	7
ATOM	4626	CA	ILE	C	140	49.696	110.472	21.049	1.00	71.94	6
ATOM	4627	CB	ILE	C	140	48.751	110.921	22.203	1.00	32.52	6
ATOM	4628	CG2	ILE	C	140	47.328	110.632	21.853	1.00	32.85	6
ATOM	4629	CG1	ILE	C	140	49.099	110.211	23.502	1.00	31.17	6
ATOM	4630	CD1	ILE	C	140	48.294	110.720	24.656	1.00	28.81	6
ATOM	4631	C	ILE	C	140	51.088	111.003	21.379	1.00	74.89	6
ATOM	4632	O	ILE	C	140	51.830	110.392	22.151	1.00	76.12	8
ATOM	4633	N	HIS	C	141	51.437	112.144	20.785	1.00	41.40	7
ATOM	4634	CA	HIS	C	141	52.731	112.792	21.026	1.00	44.28	6
ATOM	4635	CB	HIS	C	141	53.683	112.585	19.846	1.00	100.71	6
ATOM	4636	CG	HIS	C	141	53.140	113.080	18.541	1.00	103.58	6
ATOM	4637	CD2	HIS	C	141	53.213	114.296	17.949	1.00	105.25	6
ATOM	4638	ND1	HIS	C	141	52.387	112.290	17.700	1.00	104.95	7
ATOM	4639	CE1	HIS	C	141	52.019	112.997	16.647	1.00	105.35	6

ATOM	4640	NE2	HIS	C	141	52.507	114.218	16.773	1.00105.39	7
ATOM	4641	C	HIS	C	141	52.497	114.284	21.222	1.00 45.08	6
ATOM	4642	O	HIS	C	141	51.361	114.753	21.199	1.00 45.45	8
ATOM	4643	N	ARG	C	142	53.560	115.046	21.404	1.00 45.25	7
ATOM	4644	CA	ARG	C	142	53.350	116.465	21.603	1.00 46.96	6
ATOM	4645	CB	ARG	C	142	54.602	117.101	22.211	1.00 87.26	6
ATOM	4646	CG	ARG	C	142	54.293	118.353	23.024	1.00 88.28	6
ATOM	4647	CD	ARG	C	142	54.803	118.265	24.456	1.00 88.37	6
ATOM	4648	NE	ARG	C	142	56.001	119.070	24.671	1.00 85.96	7
ATOM	4649	CZ	ARG	C	142	57.179	118.808	24.125	1.00 84.10	6
ATOM	4650	NH1	ARG	C	142	57.320	117.756	23.334	1.00 81.90	7
ATOM	4651	NH2	ARG	C	142	58.209	119.606	24.361	1.00 83.03	7
ATOM	4652	C	ARG	C	142	52.988	117.131	20.276	1.00 47.16	6
ATOM	4653	O	ARG	C	142	53.758	117.043	19.325	1.00 46.66	8
ATOM	4654	N	SER	C	143	51.825	117.788	20.207	1.00 24.06	7
ATOM	4655	CA	SER	C	143	51.377	118.446	18.966	1.00 24.67	6
ATOM	4656	CB	SER	C	143	50.112	119.266	19.219	1.00137.30	6
ATOM	4657	OG	SER	C	143	50.380	120.379	20.052	1.00140.68	8
ATOM	4658	C	SER	C	143	52.455	119.347	18.388	1.00 23.88	6
ATOM	4659	O	SER	C	143	52.917	120.257	19.040	1.00 23.01	8
ATOM	4660	N	PRO	C	144	52.861	119.102	17.145	1.00 54.84	7
ATOM	4661	CD	PRO	C	144	52.222	118.197	16.178	1.00 78.94	6
ATOM	4662	CA	PRO	C	144	53.898	119.904	16.500	1.00 56.24	6
ATOM	4663	CB	PRO	C	144	53.619	119.686	15.025	1.00 79.24	6
ATOM	4664	CG	PRO	C	144	53.168	118.272	15.006	1.00 79.94	6
ATOM	4665	C	PRO	C	144	53.867	121.377	16.886	1.00 57.78	6
ATOM	4666	O	PRO	C	144	52.795	121.989	16.943	1.00 58.39	8
ATOM	4667	N	GLY	C	145	55.043	121.943	17.150	1.00 56.07	7
ATOM	4668	CA	GLY	C	145	55.116	123.345	17.516	1.00 57.15	6
ATOM	4669	C	GLY	C	145	56.431	123.783	18.132	1.00 58.03	6
ATOM	4670	O	GLY	C	145	57.505	123.559	17.576	1.00 58.65	8
ATOM	4671	N	VAL	C	146	56.328	124.409	19.301	1.00 70.55	7
ATOM	4672	CA	VAL	C	146	57.469	124.934	20.054	1.00 71.73	6
ATOM	4673	CB	VAL	C	146	58.084	126.164	19.321	1.00 86.38	6
ATOM	4674	CG1	VAL	C	146	58.807	127.069	20.304	1.00 87.82	6
ATOM	4675	CG2	VAL	C	146	59.045	125.699	18.241	1.00 87.33	6
ATOM	4676	C	VAL	C	146	56.920	125.377	21.411	1.00 71.72	6
ATOM	4677	O	VAL	C	146	55.961	126.139	21.457	1.00 71.68	8
ATOM	4678	N	TYR	C	147	57.503	124.911	22.512	1.00117.29	7
ATOM	4679	CA	TYR	C	147	56.984	125.318	23.814	1.00117.99	6
ATOM	4680	CB	TYR	C	147	56.107	124.229	24.423	1.00 56.96	6
ATOM	4681	CG	TYR	C	147	55.592	123.190	23.463	1.00 55.38	6
ATOM	4682	CD1	TYR	C	147	56.452	122.268	22.880	1.00 54.18	6
ATOM	4683	CE1	TYR	C	147	55.963	121.274	22.056	1.00 53.00	6
ATOM	4684	CD2	TYR	C	147	54.230	123.090	23.186	1.00 55.16	6
ATOM	4685	CE2	TYR	C	147	53.739	122.106	22.365	1.00 53.62	6
ATOM	4686	CZ	TYR	C	147	54.604	121.201	21.807	1.00 52.84	6
ATOM	4687	OH	TYR	C	147	54.104	120.196	21.022	1.00 53.09	8
ATOM	4688	C	TYR	C	147	58.020	125.703	24.856	1.00119.45	6
ATOM	4689	O	TYR	C	147	57.672	126.267	25.890	1.00121.23	8
ATOM	4690	N	PHE	C	148	59.282	125.385	24.599	1.00127.73	7
ATOM	4691	CA	PHE	C	148	60.356	125.701	25.534	1.00127.40	6
ATOM	4692	CB	PHE	C	148	60.178	127.120	26.072	1.00 72.62	6
ATOM	4693	CG	PHE	C	148	60.496	128.170	25.051	1.00 72.89	6
ATOM	4694	CD1	PHE	C	148	59.873	128.150	23.813	1.00 72.38	6
ATOM	4695	CD2	PHE	C	148	61.487	129.109	25.281	1.00 73.32	6

ATOM	4696	CE1	PHE	C	148	60.239	129.032	22.820	1.00	72.68	6
ATOM	4697	CE2	PHE	C	148	61.859	129.995	24.290	1.00	73.89	6
ATOM	4698	CZ	PHE	C	148	61.234	129.956	23.056	1.00	73.37	6
ATOM	4699	C	PHE	C	148	60.465	124.672	26.653	1.00	127.51	6
ATOM	4700	O	PHE	C	148	60.867	123.547	26.365	1.00	129.30	8
ATOM	4701	N	THR	C	149	60.129	125.027	27.899	1.00	41.88	7
ATOM	4702	CA	THR	C	149	60.218	124.066	29.020	1.00	40.35	6
ATOM	4703	CB	THR	C	149	60.313	122.622	28.508	1.00	45.51	6
ATOM	4704	OG1	THR	C	149	59.144	122.319	27.751	1.00	45.70	8
ATOM	4705	CG2	THR	C	149	60.481	121.638	29.638	1.00	45.67	6
ATOM	4706	C	THR	C	149	61.430	124.263	29.932	1.00	39.60	6
ATOM	4707	O	THR	C	149	62.506	124.636	29.468	1.00	39.78	8
ATOM	4708	N	PRO	C	150	61.274	123.994	31.244	1.00	43.39	7
ATOM	4709	CD	PRO	C	150	60.009	123.690	31.934	1.00	74.13	6
ATOM	4710	CA	PRO	C	150	62.356	124.134	32.226	1.00	42.51	6
ATOM	4711	CB	PRO	C	150	61.624	124.041	33.559	1.00	73.28	6
ATOM	4712	CG	PRO	C	150	60.504	123.118	33.242	1.00	74.47	6
ATOM	4713	C	PRO	C	150	63.445	123.072	32.100	1.00	41.93	6
ATOM	4714	O	PRO	C	150	63.175	121.882	32.204	1.00	41.14	8
ATOM	4715	N	ASP	C	151	64.675	123.523	31.888	1.00	60.62	7
ATOM	4716	CA	ASP	C	151	65.818	122.636	31.750	1.00	61.64	6
ATOM	4717	CB	ASP	C	151	67.095	123.459	31.661	1.00	82.47	6
ATOM	4718	CG	ASP	C	151	68.284	122.636	31.246	1.00	83.64	6
ATOM	4719	OD1	ASP	C	151	68.498	121.571	31.861	1.00	85.08	8
ATOM	4720	OD2	ASP	C	151	69.005	123.054	30.310	1.00	83.86	8
ATOM	4721	C	ASP	C	151	65.884	121.736	32.970	1.00	62.64	6
ATOM	4722	O	ASP	C	151	66.220	122.190	34.060	1.00	62.88	8
ATOM	4723	N	PRO	C	152	65.584	120.441	32.801	1.00	53.51	7
ATOM	4724	CD	PRO	C	152	65.413	119.745	31.515	1.00	152.73	6
ATOM	4725	CA	PRO	C	152	65.605	119.475	33.907	1.00	53.78	6
ATOM	4726	CB	PRO	C	152	65.331	118.146	33.205	1.00	153.68	6
ATOM	4727	CG	PRO	C	152	65.910	118.364	31.837	1.00	153.85	6
ATOM	4728	C	PRO	C	152	66.890	119.445	34.742	1.00	53.62	6
ATOM	4729	O	PRO	C	152	66.836	119.280	35.965	1.00	52.96	8
ATOM	4730	N	ALA	C	153	68.034	119.590	34.077	1.00	112.64	7
ATOM	4731	CA	ALA	C	153	69.326	119.588	34.754	1.00	113.39	6
ATOM	4732	CB	ALA	C	153	70.404	120.125	33.817	1.00	30.18	6
ATOM	4733	C	ALA	C	153	69.232	120.458	36.002	1.00	113.68	6
ATOM	4734	O	ALA	C	153	68.842	119.992	37.075	1.00	113.62	8
ATOM	4735	N	ARG	C	154	69.600	121.724	35.854	1.00	60.59	7
ATOM	4736	CA	ARG	C	154	69.532	122.675	36.953	1.00	60.51	6
ATOM	4737	CB	ARG	C	154	70.924	122.944	37.515	1.00	102.11	6
ATOM	4738	CG	ARG	C	154	71.529	121.762	38.255	1.00	103.38	6
ATOM	4739	CD	ARG	C	154	70.707	121.387	39.481	1.00	105.00	6
ATOM	4740	NE	ARG	C	154	71.391	120.388	40.300	1.00	106.91	7
ATOM	4741	CZ	ARG	C	154	70.934	119.922	41.459	1.00	107.11	6
ATOM	4742	NH1	ARG	C	154	69.782	120.362	41.946	1.00	107.07	7
ATOM	4743	NH2	ARG	C	154	71.634	119.018	42.133	1.00	106.92	7
ATOM	4744	C	ARG	C	154	68.934	123.945	36.367	1.00	60.26	6
ATOM	4745	O	ARG	C	154	69.385	124.409	35.317	1.00	60.90	8
ATOM	4746	N	PRO	C	155	67.921	124.525	37.046	1.00	123.78	7
ATOM	4747	CD	PRO	C	155	67.773	124.324	38.492	1.00	72.44	6
ATOM	4748	CA	PRO	C	155	67.197	125.742	36.654	1.00	123.95	6
ATOM	4749	CB	PRO	C	155	67.106	126.545	37.964	1.00	72.35	6
ATOM	4750	CG	PRO	C	155	67.916	125.733	38.984	1.00	72.06	6
ATOM	4751	C	PRO	C	155	67.791	126.542	35.500	1.00	123.67	6

ATOM	4752	O	PRO	C	155	68.825	127.200	35.637	1.00123.37	8
ATOM	4753	N	GLY	C	156	67.118	126.474	34.356	1.00 79.22	7
ATOM	4754	CA	GLY	C	156	67.586	127.186	33.188	1.00 78.18	6
ATOM	4755	C	GLY	C	156	66.950	126.674	31.918	1.00 78.05	6
ATOM	4756	O	GLY	C	156	67.636	126.094	31.082	1.00 78.51	8
ATOM	4757	N	ARG	C	157	65.645	126.895	31.778	1.00 53.95	7
ATOM	4758	CA	ARG	C	157	64.886	126.477	30.597	1.00 53.98	6
ATOM	4759	CB	ARG	C	157	63.700	127.418	30.360	1.00 62.64	6
ATOM	4760	CG	ARG	C	157	63.671	128.658	31.234	1.00 62.58	6
ATOM	4761	CD	ARG	C	157	62.903	128.383	32.518	1.00 62.90	6
ATOM	4762	NE	ARG	C	157	62.815	129.558	33.379	1.00 62.14	7
ATOM	4763	CZ	ARG	C	157	62.214	129.572	34.565	1.00 61.89	6
ATOM	4764	NH1	ARG	C	157	61.643	128.470	35.040	1.00 61.21	7
ATOM	4765	NH2	ARG	C	157	62.191	130.688	35.282	1.00 61.30	7
ATOM	4766	C	ARG	C	157	65.648	126.362	29.269	1.00 54.44	6
ATOM	4767	O	ARG	C	157	66.756	126.893	29.096	1.00 54.30	8
ATOM	4768	N	TYR	C	158	65.030	125.655	28.327	1.00121.76	7
ATOM	4769	CA	TYR	C	158	65.591	125.473	26.994	1.00122.22	6
ATOM	4770	CB	TYR	C	158	66.222	124.088	26.830	1.00123.23	6
ATOM	4771	CG	TYR	C	158	65.461	122.969	27.486	1.00124.02	6
ATOM	4772	CD1	TYR	C	158	64.074	122.998	27.575	1.00124.12	6
ATOM	4773	CE1	TYR	C	158	63.373	121.966	28.181	1.00125.39	6
ATOM	4774	CD2	TYR	C	158	66.133	121.874	28.016	1.00125.08	6
ATOM	4775	CE2	TYR	C	158	65.443	120.833	28.621	1.00126.19	6
ATOM	4776	CZ	TYR	C	158	64.059	120.885	28.703	1.00126.37	6
ATOM	4777	OH	TYR	C	158	63.365	119.860	29.310	1.00126.79	8
ATOM	4778	C	TYR	C	158	64.490	125.649	25.967	1.00121.49	6
ATOM	4779	O	TYR	C	158	63.373	126.041	26.300	1.00121.07	8
ATOM	4780	N	ILE	C	159	64.807	125.356	24.714	1.00 29.94	7
ATOM	4781	CA	ILE	C	159	63.836	125.500	23.648	1.00 29.68	6
ATOM	4782	CB	ILE	C	159	64.154	126.715	22.764	1.00 68.63	6
ATOM	4783	CG2	ILE	C	159	62.944	127.066	21.902	1.00 68.71	6
ATOM	4784	CG1	ILE	C	159	64.518	127.908	23.642	1.00 69.14	6
ATOM	4785	CD1	ILE	C	159	64.982	129.105	22.855	1.00 70.48	6
ATOM	4786	C	ILE	C	159	63.781	124.269	22.757	1.00 29.29	6
ATOM	4787	O	ILE	C	159	64.799	123.804	22.231	1.00 28.38	8
ATOM	4788	N	ALA	C	160	62.574	123.746	22.596	1.00 62.13	7
ATOM	4789	CA	ALA	C	160	62.358	122.584	21.765	1.00 62.42	6
ATOM	4790	CB	ALA	C	160	61.670	121.492	22.576	1.00 13.87	6
ATOM	4791	C	ALA	C	160	61.495	123.014	20.589	1.00 63.06	6
ATOM	4792	O	ALA	C	160	60.536	123.767	20.749	1.00 63.00	8
ATOM	4793	N	SER	C	161	61.847	122.554	19.399	1.00 52.02	7
ATOM	4794	CA	SER	C	161	61.082	122.897	18.215	1.00 53.53	6
ATOM	4795	CB	SER	C	161	61.958	123.713	17.264	1.00 35.62	6
ATOM	4796	OG	SER	C	161	61.206	124.209	16.171	1.00 33.38	8
ATOM	4797	C	SER	C	161	60.604	121.603	17.542	1.00 55.90	6
ATOM	4798	O	SER	C	161	61.330	121.009	16.744	1.00 56.86	8
ATOM	4799	N	ILE	C	162	59.389	121.167	17.876	1.00 66.20	7
ATOM	4800	CA	ILE	C	162	58.800	119.942	17.321	1.00 69.04	6
ATOM	4801	CB	ILE	C	162	57.438	119.631	18.001	1.00110.64	6
ATOM	4802	CG2	ILE	C	162	56.653	118.604	17.196	1.00110.49	6
ATOM	4803	CG1	ILE	C	162	57.666	119.075	19.408	1.00112.67	6
ATOM	4804	CD1	ILE	C	162	58.586	119.892	20.279	1.00115.54	6
ATOM	4805	C	ILE	C	162	58.595	119.997	15.802	1.00 70.21	6
ATOM	4806	O	ILE	C	162	58.684	121.048	15.184	1.00 70.59	8
ATOM	4807	N	ILE	C	163	58.319	118.851	15.205	1.00 55.46	7

ATOM	4808	CA	ILE	C	163	58.113	118.776	13.779	1.00	58.28	6
ATOM	4809	CB	ILE	C	163	59.297	118.055	13.117	1.00	108.27	6
ATOM	4810	CG2	ILE	C	163	59.951	118.969	12.104	1.00	109.24	6
ATOM	4811	CG1	ILE	C	163	60.352	117.705	14.166	1.00	109.10	6
ATOM	4812	CD1	ILE	C	163	59.941	116.607	15.120	1.00	109.92	6
ATOM	4813	C	ILE	C	163	56.794	118.036	13.537	1.00	60.36	6
ATOM	4814	O	ILE	C	163	56.397	117.203	14.353	1.00	60.87	8
ATOM	4815	N	PRO	C	164	56.116	118.314	12.400	1.00	170.37	7
ATOM	4816	CD	PRO	C	164	56.844	118.802	11.219	1.00	206.16	6
ATOM	4817	CA	PRO	C	164	54.830	117.739	11.970	1.00	172.36	6
ATOM	4818	CB	PRO	C	164	54.944	117.723	10.440	1.00	206.05	6
ATOM	4819	CG	PRO	C	164	56.420	117.813	10.180	1.00	206.20	6
ATOM	4820	C	PRO	C	164	54.465	116.377	12.542	1.00	172.85	6
ATOM	4821	O	PRO	C	164	53.383	116.198	13.099	1.00	173.08	8
ATOM	4822	N	LEU	C	165	55.363	115.417	12.375	1.00	84.53	7
ATOM	4823	CA	LEU	C	165	55.172	114.069	12.893	1.00	86.24	6
ATOM	4824	CB	LEU	C	165	54.306	113.221	11.951	1.00	183.33	6
ATOM	4825	CG	LEU	C	165	52.809	113.557	11.928	1.00	185.30	6
ATOM	4826	CD1	LEU	C	165	52.093	112.712	10.891	1.00	186.01	6
ATOM	4827	CD2	LEU	C	165	52.213	113.320	13.302	1.00	185.64	6
ATOM	4828	C	LEU	C	165	56.557	113.476	13.012	1.00	86.63	6
ATOM	4829	O	LEU	C	165	57.412	113.713	12.158	1.00	86.89	8
ATOM	4830	N	PRO	C	166	56.799	112.698	14.075	1.00	129.88	7
ATOM	4831	CD	PRO	C	166	55.740	112.149	14.942	1.00	63.26	6
ATOM	4832	CA	PRO	C	166	58.087	112.049	14.348	1.00	130.73	6
ATOM	4833	CB	PRO	C	166	57.676	110.812	15.132	1.00	63.82	6
ATOM	4834	CG	PRO	C	166	56.530	111.347	15.955	1.00	63.96	6
ATOM	4835	C	PRO	C	166	58.897	111.725	13.091	1.00	131.07	6
ATOM	4836	O	PRO	C	166	59.954	112.310	12.855	1.00	131.68	8
ATOM	4837	N	LYS	C	167	58.399	110.795	12.285	1.00	154.09	7
ATOM	4838	CA	LYS	C	167	59.085	110.433	11.057	1.00	154.27	6
ATOM	4839	CB	LYS	C	167	58.579	109.081	10.544	1.00	100.00	6
ATOM	4840	CG	LYS	C	167	58.792	107.916	11.512	1.00	101.09	6
ATOM	4841	CD	LYS	C	167	58.184	106.614	10.967	1.00	101.62	6
ATOM	4842	CE	LYS	C	167	58.275	105.457	11.967	1.00	101.62	6
ATOM	4843	NZ	LYS	C	167	57.599	104.220	11.477	1.00	102.16	7
ATOM	4844	C	LYS	C	167	58.834	111.521	10.015	1.00	153.74	6
ATOM	4845	O	LYS	C	167	58.104	111.312	9.046	1.00	154.66	8
ATOM	4846	N	ARG	C	168	59.438	112.687	10.237	1.00	208.87	7
ATOM	4847	CA	ARG	C	168	59.309	113.829	9.335	1.00	208.87	6
ATOM	4848	CB	ARG	C	168	57.868	113.965	8.836	1.00	146.96	6
ATOM	4849	CG	ARG	C	168	57.609	115.305	8.191	1.00	149.03	6
ATOM	4850	CD	ARG	C	168	56.342	115.325	7.376	1.00	150.54	6
ATOM	4851	NE	ARG	C	168	56.202	116.607	6.692	1.00	151.71	7
ATOM	4852	CZ	ARG	C	168	55.323	116.851	5.727	1.00	153.30	6
ATOM	4853	NH1	ARG	C	168	54.495	115.898	5.325	1.00	155.10	7
ATOM	4854	NH2	ARG	C	168	55.272	118.049	5.161	1.00	153.41	7
ATOM	4855	C	ARG	C	168	59.736	115.157	9.967	1.00	208.87	6
ATOM	4856	O	ARG	C	168	59.030	115.699	10.818	1.00	208.87	8
ATOM	4857	N	GLY	C	169	60.880	115.685	9.534	1.00	101.34	7
ATOM	4858	CA	GLY	C	169	61.369	116.945	10.067	1.00	96.06	6
ATOM	4859	C	GLY	C	169	62.264	116.774	11.280	1.00	92.86	6
ATOM	4860	O	GLY	C	169	62.176	115.768	11.978	1.00	93.47	8
ATOM	4861	N	PRO	C	170	63.155	117.733	11.549	1.00	79.40	7
ATOM	4862	CD	PRO	C	170	63.788	118.589	10.539	1.00	58.08	6
ATOM	4863	CA	PRO	C	170	64.032	117.597	12.716	1.00	75.94	6

ATOM	4864	CB	PRO	C	170	65.343	118.234	12.253	1.00	55.31	6
ATOM	4865	CG	PRO	C	170	65.232	118.248	10.746	1.00	55.85	6
ATOM	4866	C	PRO	C	170	63.506	118.257	13.990	1.00	73.58	6
ATOM	4867	O	PRO	C	170	62.975	119.372	13.972	1.00	73.71	8
ATOM	4868	N	TRP	C	171	63.667	117.536	15.091	1.00	62.07	7
ATOM	4869	CA	TRP	C	171	63.265	117.978	16.415	1.00	58.42	6
ATOM	4870	CB	TRP	C	171	62.937	116.743	17.265	1.00	73.02	6
ATOM	4871	CG	TRP	C	171	62.826	116.966	18.741	1.00	71.24	6
ATOM	4872	CD2	TRP	C	171	61.630	116.935	19.519	1.00	70.57	6
ATOM	4873	CE2	TRP	C	171	61.996	117.177	20.858	1.00	69.79	6
ATOM	4874	CE3	TRP	C	171	60.282	116.726	19.214	1.00	69.74	6
ATOM	4875	CD1	TRP	C	171	63.844	117.218	19.616	1.00	70.80	6
ATOM	4876	NE1	TRP	C	171	63.353	117.345	20.891	1.00	70.14	7
ATOM	4877	CZ2	TRP	C	171	61.063	117.216	21.886	1.00	68.62	6
ATOM	4878	CZ3	TRP	C	171	59.360	116.762	20.236	1.00	68.21	6
ATOM	4879	CH2	TRP	C	171	59.752	117.007	21.556	1.00	68.40	6
ATOM	4880	C	TRP	C	171	64.474	118.728	16.964	1.00	57.22	6
ATOM	4881	O	TRP	C	171	65.439	118.116	17.436	1.00	57.05	8
ATOM	4882	N	ILE	C	172	64.422	120.054	16.869	1.00	46.00	7
ATOM	4883	CA	ILE	C	172	65.502	120.922	17.330	1.00	43.86	6
ATOM	4884	CB	ILE	C	172	65.619	122.181	16.417	1.00	53.44	6
ATOM	4885	CG2	ILE	C	172	66.528	123.230	17.047	1.00	52.58	6
ATOM	4886	CG1	ILE	C	172	66.152	121.776	15.044	1.00	53.18	6
ATOM	4887	CD1	ILE	C	172	66.485	122.952	14.143	1.00	53.90	6
ATOM	4888	C	ILE	C	172	65.339	121.382	18.777	1.00	43.80	6
ATOM	4889	O	ILE	C	172	64.232	121.420	19.312	1.00	43.38	8
ATOM	4890	N	ASP	C	173	66.456	121.716	19.410	1.00	27.91	7
ATOM	4891	CA	ASP	C	173	66.447	122.216	20.773	1.00	28.66	6
ATOM	4892	CB	ASP	C	173	66.740	121.095	21.765	1.00	75.82	6
ATOM	4893	CG	ASP	C	173	65.505	120.346	22.177	1.00	77.50	6
ATOM	4894	OD1	ASP	C	173	64.542	120.998	22.616	1.00	79.36	8
ATOM	4895	OD2	ASP	C	173	65.498	119.105	22.074	1.00	78.29	8
ATOM	4896	C	ASP	C	173	67.500	123.312	20.918	1.00	29.71	6
ATOM	4897	O	ASP	C	173	68.668	123.104	20.580	1.00	29.08	8
ATOM	4898	N	LEU	C	174	67.092	124.485	21.393	1.00	51.31	7
ATOM	4899	CA	LEU	C	174	68.032	125.587	21.590	1.00	52.02	6
ATOM	4900	CB	LEU	C	174	67.456	126.917	21.099	1.00	30.46	6
ATOM	4901	CG	LEU	C	174	66.724	127.041	19.762	1.00	27.68	6
ATOM	4902	CD1	LEU	C	174	66.242	128.477	19.614	1.00	27.71	6
ATOM	4903	CD2	LEU	C	174	67.632	126.655	18.604	1.00	27.25	6
ATOM	4904	C	LEU	C	174	68.232	125.674	23.089	1.00	53.81	6
ATOM	4905	O	LEU	C	174	67.301	126.000	23.820	1.00	52.87	8
ATOM	4906	N	GLU	C	175	69.440	125.393	23.554	1.00	91.87	7
ATOM	4907	CA	GLU	C	175	69.693	125.428	24.985	1.00	95.65	6
ATOM	4908	CB	GLU	C	175	70.099	124.031	25.465	1.00	184.07	6
ATOM	4909	CG	GLU	C	175	70.397	123.942	26.955	1.00	187.25	6
ATOM	4910	CD	GLU	C	175	70.953	122.590	27.358	1.00	189.17	6
ATOM	4911	OE1	GLU	C	175	72.020	122.204	26.832	1.00	189.79	8
ATOM	4912	OE2	GLU	C	175	70.325	121.912	28.200	1.00	190.45	8
ATOM	4913	C	GLU	C	175	70.750	126.434	25.419	1.00	97.00	6
ATOM	4914	O	GLU	C	175	71.828	126.502	24.831	1.00	97.41	8
ATOM	4915	N	VAL	C	176	70.425	127.220	26.445	1.00	109.36	7
ATOM	4916	CA	VAL	C	176	71.362	128.192	27.008	1.00	111.86	6
ATOM	4917	CB	VAL	C	176	70.631	129.383	27.649	1.00	99.51	6
ATOM	4918	CG1	VAL	C	176	70.510	130.519	26.653	1.00	99.77	6
ATOM	4919	CG2	VAL	C	176	69.251	128.941	28.118	1.00	99.99	6

ATOM	4920	C	VAL	C	176	72.099	127.418	28.096	1.00113.46	6
ATOM	4921	O	VAL	C	176	71.473	126.934	29.041	1.00113.99	8
ATOM	4922	N	GLU	C	177	73.418	127.301	27.963	1.00114.43	7
ATOM	4923	CA	GLU	C	177	74.213	126.533	28.916	1.00115.97	6
ATOM	4924	CB	GLU	C	177	74.934	125.409	28.174	1.00 69.53	6
ATOM	4925	CG	GLU	C	177	75.954	125.905	27.171	1.00 69.55	6
ATOM	4926	CD	GLU	C	177	75.801	125.258	25.812	1.00 70.88	6
ATOM	4927	OE1	GLU	C	177	74.720	125.413	25.211	1.00 72.04	8
ATOM	4928	OE2	GLU	C	177	76.757	124.598	25.341	1.00 72.21	8
ATOM	4929	C	GLU	C	177	75.235	127.319	29.726	1.00117.14	6
ATOM	4930	O	GLU	C	177	75.312	128.547	29.652	1.00118.00	8
ATOM	4931	N	ALA	C	178	76.021	126.584	30.505	1.00 86.35	7
ATOM	4932	CA	ALA	C	178	77.059	127.180	31.330	1.00 86.34	6
ATOM	4933	CB	ALA	C	178	77.411	126.249	32.471	1.00 60.35	6
ATOM	4934	C	ALA	C	178	78.278	127.404	30.461	1.00 86.27	6
ATOM	4935	O	ALA	C	178	78.648	128.541	30.163	1.00 86.17	8
ATOM	4936	N	SER	C	179	78.888	126.297	30.051	1.00124.62	7
ATOM	4937	CA	SER	C	179	80.078	126.325	29.215	1.00124.26	6
ATOM	4938	CB	SER	C	179	81.081	125.283	29.720	1.00 83.67	6
ATOM	4939	OG	SER	C	179	80.429	124.068	30.043	1.00 83.11	8
ATOM	4940	C	SER	C	179	79.753	126.077	27.744	1.00124.15	6
ATOM	4941	O	SER	C	179	79.622	124.932	27.308	1.00124.27	8
ATOM	4942	N	GLY	C	180	79.628	127.164	26.986	1.00190.01	7
ATOM	4943	CA	GLY	C	180	79.316	127.065	25.570	1.00188.94	6
ATOM	4944	C	GLY	C	180	78.424	128.207	25.118	1.00187.48	6
ATOM	4945	O	GLY	C	180	78.811	129.018	24.277	1.00187.77	8
ATOM	4946	N	VAL	C	181	77.222	128.255	25.684	1.00101.50	7
ATOM	4947	CA	VAL	C	181	76.236	129.290	25.391	1.00 98.68	6
ATOM	4948	CB	VAL	C	181	76.881	130.682	25.309	1.00 85.33	6
ATOM	4949	CG1	VAL	C	181	75.817	131.729	25.005	1.00 86.11	6
ATOM	4950	CG2	VAL	C	181	77.590	130.999	26.616	1.00 85.64	6
ATOM	4951	C	VAL	C	181	75.447	129.066	24.115	1.00 97.12	6
ATOM	4952	O	VAL	C	181	75.970	129.208	23.016	1.00 98.03	8
ATOM	4953	N	VAL	C	182	74.174	128.728	24.283	1.00 49.17	7
ATOM	4954	CA	VAL	C	182	73.254	128.492	23.176	1.00 47.30	6
ATOM	4955	CB	VAL	C	182	72.965	129.801	22.412	1.00 88.90	6
ATOM	4956	CG1	VAL	C	182	71.625	129.697	21.703	1.00 88.65	6
ATOM	4957	CG2	VAL	C	182	72.958	130.978	23.380	1.00 89.47	6
ATOM	4958	C	VAL	C	182	73.693	127.414	22.184	1.00 45.25	6
ATOM	4959	O	VAL	C	182	74.519	127.638	21.296	1.00 44.44	8
ATOM	4960	N	THR	C	183	73.108	126.235	22.351	1.00 54.04	7
ATOM	4961	CA	THR	C	183	73.398	125.098	21.499	1.00 52.78	6
ATOM	4962	CB	THR	C	183	73.811	123.873	22.351	1.00 57.05	6
ATOM	4963	OG1	THR	C	183	74.944	124.217	23.156	1.00 57.23	8
ATOM	4964	CG2	THR	C	183	74.183	122.689	21.460	1.00 56.91	6
ATOM	4965	C	THR	C	183	72.166	124.752	20.658	1.00 52.66	6
ATOM	4966	O	THR	C	183	71.052	124.630	21.174	1.00 52.53	8
ATOM	4967	N	MET	C	184	72.382	124.621	19.354	1.00119.00	7
ATOM	4968	CA	MET	C	184	71.328	124.274	18.409	1.00118.73	6
ATOM	4969	CB	MET	C	184	71.469	125.124	17.139	1.00 40.44	6
ATOM	4970	CG	MET	C	184	70.168	125.682	16.555	1.00 36.98	6
ATOM	4971	SD	MET	C	184	69.194	124.596	15.491	1.00 33.84	16
ATOM	4972	CE	MET	C	184	69.676	125.144	13.911	1.00 34.18	6
ATOM	4973	C	MET	C	184	71.586	122.805	18.088	1.00120.26	6
ATOM	4974	O	MET	C	184	72.524	122.489	17.353	1.00121.69	8
ATOM	4975	N	LYS	C	185	70.780	121.908	18.651	1.00 65.73	7

ATOM	4976	CA	LYS	C	185	70.981	120.488	18.397	1.00	66.80	6
ATOM	4977	CB	LYS	C	185	71.015	119.713	19.718	1.00	112.77	6
ATOM	4978	CG	LYS	C	185	70.001	120.169	20.737	1.00	113.93	6
ATOM	4979	CD	LYS	C	185	70.298	119.579	22.108	1.00	114.95	6
ATOM	4980	CE	LYS	C	185	69.505	120.306	23.185	1.00	115.35	6
ATOM	4981	NZ	LYS	C	185	69.807	119.831	24.558	1.00	116.49	7
ATOM	4982	C	LYS	C	185	69.997	119.834	17.435	1.00	67.41	6
ATOM	4983	O	LYS	C	185	69.037	119.193	17.848	1.00	67.37	8
ATOM	4984	N	VAL	C	186	70.244	119.999	16.144	1.00	63.54	7
ATOM	4985	CA	VAL	C	186	69.397	119.387	15.146	1.00	65.54	6
ATOM	4986	CB	VAL	C	186	69.662	119.980	13.767	1.00	44.28	6
ATOM	4987	CG1	VAL	C	186	68.491	119.700	12.862	1.00	44.54	6
ATOM	4988	CG2	VAL	C	186	69.889	121.475	13.879	1.00	43.86	6
ATOM	4989	C	VAL	C	186	69.828	117.928	15.183	1.00	68.57	6
ATOM	4990	O	VAL	C	186	71.011	117.645	15.366	1.00	70.21	8
ATOM	4991	N	ASN	C	187	68.875	117.010	15.013	1.00	73.26	7
ATOM	4992	CA	ASN	C	187	69.146	115.573	15.082	1.00	74.74	6
ATOM	4993	CB	ASN	C	187	69.404	114.964	13.684	1.00	88.07	6
ATOM	4994	CG	ASN	C	187	70.368	115.777	12.845	1.00	89.73	6
ATOM	4995	OD1	ASN	C	187	71.370	116.274	13.345	1.00	89.09	8
ATOM	4996	ND2	ASN	C	187	70.076	115.899	11.553	1.00	90.27	7
ATOM	4997	C	ASN	C	187	70.304	115.281	16.035	1.00	75.73	6
ATOM	4998	O	ASN	C	187	70.241	115.632	17.212	1.00	76.73	8
ATOM	4999	N	LYS	C	188	71.362	114.657	15.539	1.00	89.99	7
ATOM	5000	CA	LYS	C	188	72.506	114.332	16.388	1.00	91.65	6
ATOM	5001	CB	LYS	C	188	72.981	112.904	16.084	1.00	132.01	6
ATOM	5002	CG	LYS	C	188	74.157	112.423	16.935	1.00	133.24	6
ATOM	5003	CD	LYS	C	188	74.602	111.012	16.538	1.00	134.93	6
ATOM	5004	CE	LYS	C	188	75.708	110.479	17.449	1.00	136.59	6
ATOM	5005	NZ	LYS	C	188	76.105	109.084	17.104	1.00	137.85	7
ATOM	5006	C	LYS	C	188	73.668	115.309	16.212	1.00	91.77	6
ATOM	5007	O	LYS	C	188	74.685	114.964	15.611	1.00	91.94	8
ATOM	5008	N	ALA	C	189	73.531	116.521	16.737	1.00	100.63	7
ATOM	5009	CA	ALA	C	189	74.601	117.500	16.599	1.00	100.67	6
ATOM	5010	CB	ALA	C	189	74.513	118.170	15.240	1.00	100.93	6
ATOM	5011	C	ALA	C	189	74.581	118.554	17.696	1.00	100.94	6
ATOM	5012	O	ALA	C	189	73.597	118.700	18.416	1.00	101.43	8
ATOM	5013	N	LYS	C	190	75.682	119.285	17.817	1.00	124.83	7
ATOM	5014	CA	LYS	C	190	75.814	120.340	18.812	1.00	123.69	6
ATOM	5015	CB	LYS	C	190	76.478	119.807	20.083	1.00	205.82	6
ATOM	5016	CG	LYS	C	190	76.921	120.904	21.045	1.00	208.87	6
ATOM	5017	CD	LYS	C	190	77.932	120.398	22.065	1.00	208.87	6
ATOM	5018	CE	LYS	C	190	78.485	121.547	22.902	1.00	208.87	6
ATOM	5019	NZ	LYS	C	190	79.555	121.110	23.844	1.00	208.87	7
ATOM	5020	C	LYS	C	190	76.690	121.426	18.217	1.00	122.07	6
ATOM	5021	O	LYS	C	190	77.913	121.319	18.244	1.00	122.53	8
ATOM	5022	N	PHE	C	191	76.074	122.467	17.673	1.00	55.07	7
ATOM	5023	CA	PHE	C	191	76.843	123.553	17.083	1.00	52.94	6
ATOM	5024	CB	PHE	C	191	76.650	123.570	15.568	1.00	54.01	6
ATOM	5025	CG	PHE	C	191	75.211	123.720	15.134	1.00	53.37	6
ATOM	5026	CD1	PHE	C	191	74.629	124.976	15.004	1.00	53.59	6
ATOM	5027	CD2	PHE	C	191	74.444	122.606	14.836	1.00	53.02	6
ATOM	5028	CE1	PHE	C	191	73.309	125.114	14.580	1.00	52.15	6
ATOM	5029	CE2	PHE	C	191	73.130	122.743	14.415	1.00	52.41	6
ATOM	5030	CZ	PHE	C	191	72.567	123.997	14.287	1.00	51.68	6
ATOM	5031	C	PHE	C	191	76.433	124.890	17.663	1.00	51.32	6



ATOM	5032	O	PHE	C	191	75.267	125.113	17.971	1.00	52.15	8
ATOM	5033	N	PRO	C	192	77.392	125.798	17.840	1.00	38.88	7
ATOM	5034	CD	PRO	C	192	78.832	125.719	17.536	1.00	182.54	6
ATOM	5035	CA	PRO	C	192	77.037	127.108	18.392	1.00	37.55	6
ATOM	5036	CB	PRO	C	192	78.294	127.929	18.138	1.00	182.33	6
ATOM	5037	CG	PRO	C	192	79.385	126.904	18.294	1.00	183.06	6
ATOM	5038	C	PRO	C	192	75.819	127.660	17.652	1.00	35.77	6
ATOM	5039	O	PRO	C	192	75.675	127.450	16.446	1.00	35.21	8
ATOM	5040	N	LEU	C	193	74.955	128.378	18.362	1.00	53.82	7
ATOM	5041	CA	LEU	C	193	73.741	128.907	17.743	1.00	51.81	6
ATOM	5042	CB	LEU	C	193	72.665	129.118	18.815	1.00	143.95	6
ATOM	5043	CG	LEU	C	193	71.231	129.532	18.442	1.00	143.18	6
ATOM	5044	CD1	LEU	C	193	71.195	131.005	18.125	1.00	143.77	6
ATOM	5045	CD2	LEU	C	193	70.715	128.716	17.275	1.00	143.01	6
ATOM	5046	C	LEU	C	193	73.911	130.171	16.917	1.00	50.43	6
ATOM	5047	O	LEU	C	193	73.050	130.499	16.108	1.00	50.27	8
ATOM	5048	N	VAL	C	194	75.012	130.882	17.108	1.00	107.98	7
ATOM	5049	CA	VAL	C	194	75.244	132.103	16.342	1.00	107.22	6
ATOM	5050	CB	VAL	C	194	76.411	132.910	16.942	1.00	95.52	6
ATOM	5051	CG1	VAL	C	194	76.099	134.399	16.883	1.00	94.22	6
ATOM	5052	CG2	VAL	C	194	76.679	132.452	18.373	1.00	96.45	6
ATOM	5053	C	VAL	C	194	75.591	131.726	14.897	1.00	105.88	6
ATOM	5054	O	VAL	C	194	75.346	132.489	13.958	1.00	104.99	8
ATOM	5055	N	LEU	C	195	76.150	130.527	14.743	1.00	69.97	7
ATOM	5056	CA	LEU	C	195	76.571	129.995	13.454	1.00	67.27	6
ATOM	5057	CB	LEU	C	195	77.160	128.603	13.636	1.00	20.86	6
ATOM	5058	CG	LEU	C	195	77.876	128.058	12.409	1.00	19.45	6
ATOM	5059	CD1	LEU	C	195	79.092	128.899	12.116	1.00	19.59	6
ATOM	5060	CD2	LEU	C	195	78.288	126.624	12.668	1.00	19.54	6
ATOM	5061	C	LEU	C	195	75.461	129.928	12.427	1.00	66.47	6
ATOM	5062	O	LEU	C	195	75.594	130.463	11.332	1.00	66.59	8
ATOM	5063	N	LEU	C	196	74.370	129.252	12.770	1.00	54.77	7
ATOM	5064	CA	LEU	C	196	73.248	129.139	11.838	1.00	54.99	6
ATOM	5065	CB	LEU	C	196	72.178	128.167	12.353	1.00	44.73	6
ATOM	5066	CG	LEU	C	196	70.962	128.063	11.418	1.00	44.26	6
ATOM	5067	CD1	LEU	C	196	71.049	126.752	10.631	1.00	43.98	6
ATOM	5068	CD2	LEU	C	196	69.660	128.128	12.217	1.00	44.34	6
ATOM	5069	C	LEU	C	196	72.613	130.506	11.660	1.00	55.65	6
ATOM	5070	O	LEU	C	196	72.135	130.849	10.571	1.00	55.48	8
ATOM	5071	N	LEU	C	197	72.604	131.275	12.744	1.00	52.15	7
ATOM	5072	CA	LEU	C	197	72.028	132.600	12.711	1.00	52.47	6
ATOM	5073	CB	LEU	C	197	72.115	133.264	14.077	1.00	16.86	6
ATOM	5074	CG	LEU	C	197	71.039	132.812	15.054	1.00	14.03	6
ATOM	5075	CD1	LEU	C	197	71.142	133.690	16.257	1.00	14.44	6
ATOM	5076	CD2	LEU	C	197	69.645	132.920	14.450	1.00	13.87	6
ATOM	5077	C	LEU	C	197	72.786	133.408	11.701	1.00	53.89	6
ATOM	5078	O	LEU	C	197	72.196	134.052	10.834	1.00	54.03	8
ATOM	5079	N	ARG	C	198	74.106	133.357	11.809	1.00	85.09	7
ATOM	5080	CA	ARG	C	198	74.954	134.099	10.897	1.00	87.06	6
ATOM	5081	CB	ARG	C	198	76.405	133.646	11.025	1.00	58.75	6
ATOM	5082	CG	ARG	C	198	77.378	134.771	10.830	1.00	60.92	6
ATOM	5083	CD	ARG	C	198	76.964	135.625	9.662	1.00	63.11	6
ATOM	5084	NE	ARG	C	198	77.448	136.990	9.797	1.00	66.36	7
ATOM	5085	CZ	ARG	C	198	77.167	137.966	8.940	1.00	68.73	6
ATOM	5086	NH1	ARG	C	198	76.403	137.727	7.883	1.00	69.89	7
ATOM	5087	NH2	ARG	C	198	77.649	139.185	9.143	1.00	71.74	7

ATOM	5088	C	ARG	C	198	74.462	133.854	9.482	1.00	88.21	6
ATOM	5089	O	ARG	C	198	74.060	134.787	8.788	1.00	88.90	8
ATOM	5090	N	VAL	C	199	74.491	132.591	9.067	1.00	65.98	7
ATOM	5091	CA	VAL	C	199	74.039	132.222	7.736	1.00	66.39	6
ATOM	5092	CB	VAL	C	199	73.850	130.711	7.578	1.00	50.32	6
ATOM	5093	CG1	VAL	C	199	73.030	130.435	6.322	1.00	50.25	6
ATOM	5094	CG2	VAL	C	199	75.209	130.015	7.489	1.00	50.24	6
ATOM	5095	C	VAL	C	199	72.702	132.865	7.504	1.00	67.56	6
ATOM	5096	O	VAL	C	199	72.542	133.669	6.597	1.00	69.04	8
ATOM	5097	N	LEU	C	200	71.738	132.503	8.338	1.00	64.55	7
ATOM	5098	CA	LEU	C	200	70.397	133.053	8.217	1.00	66.04	6
ATOM	5099	CB	LEU	C	200	69.554	132.642	9.442	1.00	77.26	6
ATOM	5100	CG	LEU	C	200	69.452	131.141	9.778	1.00	76.80	6
ATOM	5101	CD1	LEU	C	200	68.393	130.920	10.841	1.00	76.04	6
ATOM	5102	CD2	LEU	C	200	69.101	130.350	8.541	1.00	76.36	6
ATOM	5103	C	LEU	C	200	70.447	134.588	8.055	1.00	66.96	6
ATOM	5104	O	LEU	C	200	69.625	135.178	7.338	1.00	67.17	8
ATOM	5105	N	GLY	C	201	71.423	135.226	8.704	1.00	58.18	7
ATOM	5106	CA	GLY	C	201	71.554	136.671	8.593	1.00	59.18	6
ATOM	5107	C	GLY	C	201	71.935	137.417	9.861	1.00	58.83	6
ATOM	5108	O	GLY	C	201	72.865	138.220	9.857	1.00	58.22	8
ATOM	5109	N	TYR	C	202	71.197	137.172	10.939	1.00	74.72	7
ATOM	5110	CA	TYR	C	202	71.468	137.827	12.212	1.00	75.90	6
ATOM	5111	CB	TYR	C	202	70.633	137.206	13.331	1.00	67.76	6
ATOM	5112	CG	TYR	C	202	69.168	137.072	13.016	1.00	67.04	6
ATOM	5113	CD1	TYR	C	202	68.442	135.991	13.487	1.00	66.74	6
ATOM	5114	CE1	TYR	C	202	67.096	135.862	13.214	1.00	66.84	6
ATOM	5115	CD2	TYR	C	202	68.504	138.029	12.257	1.00	67.11	6
ATOM	5116	CE2	TYR	C	202	67.149	137.908	11.978	1.00	66.94	6
ATOM	5117	CZ	TYR	C	202	66.454	136.819	12.465	1.00	66.78	6
ATOM	5118	OH	TYR	C	202	65.109	136.678	12.225	1.00	67.58	8
ATOM	5119	C	TYR	C	202	72.927	137.597	12.517	1.00	77.83	6
ATOM	5120	O	TYR	C	202	73.511	136.618	12.059	1.00	77.94	8
ATOM	5121	N	ASP	C	203	73.511	138.507	13.283	1.00	101.22	7
ATOM	5122	CA	ASP	C	203	74.908	138.415	13.673	1.00	103.17	6
ATOM	5123	CB	ASP	C	203	75.796	138.016	12.476	1.00	128.66	6
ATOM	5124	CG	ASP	C	203	75.174	138.364	11.130	1.00	128.95	6
ATOM	5125	OD1	ASP	C	203	74.906	139.558	10.881	1.00	131.25	8
ATOM	5126	OD2	ASP	C	203	74.948	137.432	10.324	1.00	126.78	8
ATOM	5127	C	ASP	C	203	75.408	139.719	14.283	1.00	104.06	6
ATOM	5128	O	ASP	C	203	75.044	140.806	13.841	1.00	103.50	8
ATOM	5129	N	GLN	C	204	76.235	139.580	15.314	1.00	145.69	7
ATOM	5130	CA	GLN	C	204	76.832	140.703	16.027	1.00	146.33	6
ATOM	5131	CB	GLN	C	204	78.328	140.777	15.705	1.00	107.48	6
ATOM	5132	CG	GLN	C	204	79.041	141.959	16.342	1.00	107.70	6
ATOM	5133	CD	GLN	C	204	78.924	141.968	17.855	1.00	108.06	6
ATOM	5134	OE1	GLN	C	204	77.823	141.894	18.405	1.00	108.82	8
ATOM	5135	NE2	GLN	C	204	80.061	142.066	18.536	1.00	108.42	7
ATOM	5136	C	GLN	C	204	76.196	142.060	15.756	1.00	146.63	6
ATOM	5137	O	GLN	C	204	76.219	142.549	14.628	1.00	147.43	8
ATOM	5138	N	GLU	C	205	75.641	142.669	16.799	1.00	47.05	7
ATOM	5139	CA	GLU	C	205	75.018	143.986	16.687	1.00	47.71	6
ATOM	5140	CB	GLU	C	205	75.975	144.989	16.023	1.00	151.99	6
ATOM	5141	CG	GLU	C	205	77.376	145.056	16.634	1.00	154.19	6
ATOM	5142	CD	GLU	C	205	77.376	145.395	18.116	1.00	155.63	6
ATOM	5143	OE1	GLU	C	205	76.805	146.440	18.493	1.00	156.68	8

ATOM	5144	OE2	GLU	C	205	77.958	144.620	18.905	1.00155.58	8
ATOM	5145	C	GLU	C	205	73.708	143.954	15.910	1.00 47.75	6
ATOM	5146	O	GLU	C	205	72.690	144.452	16.393	1.00 47.03	8
ATOM	5147	N	THR	C	206	73.725	143.385	14.706	1.00142.36	7
ATOM	5148	CA	THR	C	206	72.500	143.295	13.913	1.00143.43	6
ATOM	5149	CB	THR	C	206	72.783	142.845	12.447	1.00106.22	6
ATOM	5150	OG1	THR	C	206	71.713	143.282	11.600	1.00106.37	8
ATOM	5151	CG2	THR	C	206	72.885	141.331	12.346	1.00105.31	6
ATOM	5152	C	THR	C	206	71.636	142.255	14.621	1.00143.64	6
ATOM	5153	O	THR	C	206	70.408	142.250	14.505	1.00143.65	8
ATOM	5154	N	LEU	C	207	72.313	141.381	15.362	1.00 99.99	7
ATOM	5155	CA	LEU	C	207	71.677	140.325	16.139	1.00100.36	6
ATOM	5156	CB	LEU	C	207	72.574	139.084	16.179	1.00 70.78	6
ATOM	5157	CG	LEU	C	207	72.173	137.930	17.102	1.00 70.90	6
ATOM	5158	CD1	LEU	C	207	70.832	137.349	16.672	1.00 70.57	6
ATOM	5159	CD2	LEU	C	207	73.257	136.865	17.058	1.00 71.36	6
ATOM	5160	C	LEU	C	207	71.510	140.866	17.548	1.00100.14	6
ATOM	5161	O	LEU	C	207	70.521	141.525	17.868	1.00100.30	8
ATOM	5162	N	VAL	C	208	72.499	140.584	18.384	1.00 68.98	7
ATOM	5163	CA	VAL	C	208	72.482	141.050	19.756	1.00 69.54	6
ATOM	5164	CB	VAL	C	208	73.693	140.514	20.533	1.00156.59	6
ATOM	5165	CG1	VAL	C	208	73.675	141.048	21.954	1.00157.26	6
ATOM	5166	CG2	VAL	C	208	73.673	138.994	20.528	1.00157.20	6
ATOM	5167	C	VAL	C	208	72.516	142.574	19.767	1.00 69.61	6
ATOM	5168	O	VAL	C	208	72.927	143.204	18.789	1.00 69.37	8
ATOM	5169	N	ARG	C	209	72.086	143.161	20.879	1.00102.05	7
ATOM	5170	CA	ARG	C	209	72.062	144.607	21.000	1.00102.46	6
ATOM	5171	CB	ARG	C	209	73.443	145.164	20.650	1.00 80.09	6
ATOM	5172	CG	ARG	C	209	74.536	144.483	21.457	1.00 80.04	6
ATOM	5173	CD	ARG	C	209	75.935	145.015	21.198	1.00 80.98	6
ATOM	5174	NE	ARG	C	209	76.830	144.580	22.271	1.00 82.65	7
ATOM	5175	CZ	ARG	C	209	78.128	144.861	22.351	1.00 83.21	6
ATOM	5176	NH1	ARG	C	209	78.720	145.588	21.408	1.00 83.30	7
ATOM	5177	NH2	ARG	C	209	78.831	144.424	23.391	1.00 82.93	7
ATOM	5178	C	ARG	C	209	70.998	145.061	20.014	1.00103.27	6
ATOM	5179	O	ARG	C	209	70.996	146.191	19.535	1.00103.27	8
ATOM	5180	N	GLU	C	210	70.089	144.136	19.727	1.00118.85	7
ATOM	5181	CA	GLU	C	210	68.984	144.358	18.810	1.00120.27	6
ATOM	5182	CB	GLU	C	210	69.503	144.441	17.372	1.00180.96	6
ATOM	5183	CG	GLU	C	210	68.659	145.317	16.459	1.00181.78	6
ATOM	5184	CD	GLU	C	210	68.723	146.784	16.840	1.00182.17	6
ATOM	5185	OE1								

ATOM	5200	OG	SER	C	212	71.413	139.150	22.509	1.00	83.23	8
ATOM	5201	C	SER	C	212	70.036	141.259	24.084	1.00	109.05	6
ATOM	5202	O	SER	C	212	71.153	141.650	23.747	1.00	109.05	8
ATOM	5203	N	ALA	C	213	69.342	141.814	25.070	1.00	89.80	7
ATOM	5204	CA	ALA	C	213	69.866	142.935	25.834	1.00	88.67	6
ATOM	5205	CB	ALA	C	213	69.444	144.247	25.191	1.00	119.25	6
ATOM	5206	C	ALA	C	213	69.365	142.870	27.268	1.00	88.05	6
ATOM	5207	O	ALA	C	213	70.162	142.791	28.203	1.00	87.84	8
ATOM	5208	N	TYR	C	214	68.046	142.888	27.438	1.00	129.04	7
ATOM	5209	CA	TYR	C	214	67.468	142.842	28.771	1.00	128.86	6
ATOM	5210	CB	TYR	C	214	65.933	142.921	28.712	1.00	81.89	6
ATOM	5211	CG	TYR	C	214	65.215	141.897	27.840	1.00	80.30	6
ATOM	5212	CD1	TYR	C	214	65.777	140.642	27.553	1.00	79.07	6
ATOM	5213	CE1	TYR	C	214	65.081	139.705	26.781	1.00	77.16	6
ATOM	5214	CD2	TYR	C	214	63.939	142.175	27.332	1.00	79.27	6
ATOM	5215	CE2	TYR	C	214	63.242	141.247	26.569	1.00	77.29	6
ATOM	5216	CZ	TYR	C	214	63.815	140.022	26.294	1.00	76.39	6
ATOM	5217	OH	TYR	C	214	63.124	139.140	25.501	1.00	75.89	8
ATOM	5218	C	TYR	C	214	67.901	141.630	29.592	1.00	128.94	6
ATOM	5219	O	TYR	C	214	67.635	141.554	30.793	1.00	129.75	8
ATOM	5220	N	GLY	C	215	68.573	140.686	28.948	1.00	75.08	7
ATOM	5221	CA	GLY	C	215	69.038	139.515	29.660	1.00	75.27	6
ATOM	5222	C	GLY	C	215	70.350	139.026	29.079	1.00	75.58	6
ATOM	5223	O	GLY	C	215	70.350	138.096	28.268	1.00	76.28	8
ATOM	5224	N	ASP	C	216	71.458	139.648	29.489	1.00	85.58	7
ATOM	5225	CA	ASP	C	216	72.804	139.300	29.007	1.00	85.27	6
ATOM	5226	CB	ASP	C	216	73.791	139.261	30.174	1.00	131.92	6
ATOM	5227	CG	ASP	C	216	73.854	140.569	30.922	1.00	132.48	6
ATOM	5228	OD1	ASP	C	216	72.816	140.969	31.485	1.00	132.94	8
ATOM	5229	OD2	ASP	C	216	74.937	141.197	30.945	1.00	132.30	8
ATOM	5230	C	ASP	C	216	72.876	137.972	28.266	1.00	84.97	6
ATOM	5231	O	ASP	C	216	72.381	137.829	27.146	1.00	84.91	8
ATOM	5232	N	LEU	C	217	73.514	136.998	28.894	1.00	77.58	7
ATOM	5233	CA	LEU	C	217	73.623	135.687	28.289	1.00	77.89	6
ATOM	5234	CB	LEU	C	217	72.237	135.044	28.190	1.00	80.27	6
ATOM	5235	CG	LEU	C	217	71.155	135.447	29.201	1.00	79.36	6
ATOM	5236	CD1	LEU	C	217	69.855	134.737	28.857	1.00	78.34	6
ATOM	5237	CD2	LEU	C	217	71.590	135.106	30.617	1.00	78.99	6
ATOM	5238	C	LEU	C	217	74.189	135.836	26.887	1.00	78.60	6
ATOM	5239	O	LEU	C	217	74.174	134.882	26.111	1.00	79.02	8
ATOM	5240	N	VAL	C	218	74.698	137.022	26.562	1.00	130.42	7
ATOM	5241	CA	VAL	C	218	75.226	137.263	25.225	1.00	131.09	6
ATOM	5242	CB	VAL	C	218	74.759	138.612	24.678	1.00	90.38	6
ATOM	5243	CG1	VAL	C	218	75.311	138.810	23.279	1.00	90.04	6
ATOM	5244	CG2	VAL	C	218	73.247	138.664	24.660	1.00	89.65	6
ATOM	5245	C	VAL	C	218	76.730	137.185	25.009	1.00	131.97	6
ATOM	5246	O	VAL	C	218	77.164	136.633	24.000	1.00	132.21	8
ATOM	5247	N	GLN	C	219	77.527	137.744	25.916	1.00	152.90	7
ATOM	5248	CA	GLN	C	219	78.980	137.695	25.747	1.00	153.25	6
ATOM	5249	CB	GLN	C	219	79.700	137.907	27.080	1.00	136.00	6
ATOM	5250	CG	GLN	C	219	79.550	139.285	27.687	1.00	135.38	6
ATOM	5251	CD	GLN	C	219	80.500	139.495	28.856	1.00	136.08	6
ATOM	5252	OE1	GLN	C	219	81.719	139.563	28.675	1.00	136.00	8
ATOM	5253	NE2	GLN	C	219	79.948	139.586	30.063	1.00	136.33	7
ATOM	5254	C	GLN	C	219	79.402	136.345	25.168	1.00	153.29	6
ATOM	5255	O	GLN	C	219	80.380	136.250	24.424	1.00	153.73	8

ATOM	5256	N	GLY	C	220	78.649	135.305	25.516	1.00	75.93	7
ATOM	5257	CA	GLY	C	220	78.941	133.974	25.027	1.00	77.21	6
ATOM	5258	C	GLY	C	220	78.353	133.704	23.653	1.00	78.18	6
ATOM	5259	O	GLY	C	220	78.902	132.907	22.886	1.00	78.07	8
ATOM	5260	N	LEU	C	221	77.229	134.342	23.338	1.00	83.09	7
ATOM	5261	CA	LEU	C	221	76.611	134.157	22.029	1.00	84.37	6
ATOM	5262	CB	LEU	C	221	75.195	134.734	22.011	1.00	57.92	6
ATOM	5263	CG	LEU	C	221	74.439	134.511	20.695	1.00	57.02	6
ATOM	5264	CD1	LEU	C	221	73.967	133.054	20.628	1.00	56.56	6
ATOM	5265	CD2	LEU	C	221	73.259	135.474	20.585	1.00	56.14	6
ATOM	5266	C	LEU	C	221	77.476	134.892	21.003	1.00	85.81	6
ATOM	5267	O	LEU	C	221	77.161	134.943	19.812	1.00	86.07	8
ATOM	5268	N	LEU	C	222	78.578	135.460	21.479	1.00	56.83	7
ATOM	5269	CA	LEU	C	222	79.482	136.193	20.615	1.00	58.88	6
ATOM	5270	CB	LEU	C	222	79.536	137.662	21.056	1.00	71.27	6
ATOM	5271	CG	LEU	C	222	78.229	138.468	20.951	1.00	70.06	6
ATOM	5272	CD1	LEU	C	222	78.407	139.815	21.614	1.00	69.38	6
ATOM	5273	CD2	LEU	C	222	77.833	138.649	19.497	1.00	68.39	6
ATOM	5274	C	LEU	C	222	80.888	135.593	20.583	1.00	61.05	6
ATOM	5275	O	LEU	C	222	81.616	135.797	19.620	1.00	62.44	8
ATOM	5276	N	ASP	C	223	81.270	134.848	21.617	1.00	149.38	7
ATOM	5277	CA	ASP	C	223	82.604	134.236	21.662	1.00	151.90	6
ATOM	5278	CB	ASP	C	223	82.637	133.082	22.671	1.00	208.87	6
ATOM	5279	CG	ASP	C	223	82.824	133.561	24.099	1.00	208.87	6
ATOM	5280	OD1	ASP	C	223	83.824	134.261	24.364	1.00	208.87	8
ATOM	5281	OD2	ASP	C	223	81.975	133.236	24.956	1.00	208.87	8
ATOM	5282	C	ASP	C	223	83.092	133.731	20.303	1.00	152.75	6
ATOM	5283	O	ASP	C	223	84.259	133.916	19.950	1.00	152.57	8
ATOM	5284	N	GLU	C	224	82.202	133.089	19.549	1.00	84.62	7
ATOM	5285	CA	GLU	C	224	82.549	132.576	18.228	1.00	86.27	6
ATOM	5286	CB	GLU	C	224	81.940	131.186	18.019	1.00	208.87	6
ATOM	5287	CG	GLU	C	224	82.704	130.066	18.706	1.00	208.87	6
ATOM	5288	CD	GLU	C	224	84.113	129.907	18.162	1.00	208.87	6
ATOM	5289	OE1	GLU	C	224	84.265	129.623	16.955	1.00	208.87	8
ATOM	5290	OE2	GLU	C	224	85.073	130.069	18.943	1.00	208.87	8
ATOM	5291	C	GLU	C	224	82.085	133.520	17.117	1.00	86.52	6
ATOM	5292	O	GLU	C	224	81.729	133.075	16.020	1.00	85.93	8
ATOM	5293	N	ALA	C	225	82.091	134.822	17.406	1.00	175.86	7
ATOM	5294	CA	ALA	C	225	81.689	135.831	16.426	1.00	176.34	6
ATOM	5295	CB	ALA	C	225	81.941	137.230	16.961	1.00	78.67	6
ATOM	5296	C	ALA	C	225	82.538	135.586	15.199	1.00	176.29	6
ATOM	5297	O	ALA	C	225	82.205	136.013	14.095	1.00	176.67	8
ATOM	5298	N	VAL	C	226	83.657	134.904	15.419	1.00	98.39	7
ATOM	5299	CA	VAL	C	226	84.548	134.549	14.341	1.00	97.87	6
ATOM	5300	CB	VAL	C	226	85.628	133.561	14.831	1.00	88.32	6
ATOM	5301	CG1	VAL	C	226	86.463	134.211	15.916	1.00	88.30	6
ATOM	5302	CG2	VAL	C	226	84.985	132.302	15.377	1.00	88.42	6
ATOM	5303	C	VAL	C	226	83.635	133.881	13.319	1.00	97.91	6
ATOM	5304	O	VAL	C	226	83.751	134.119	12.119	1.00	98.63	8
ATOM	5305	N	LEU	C	227	82.709	133.060	13.814	1.00	138.81	7
ATOM	5306	CA	LEU	C	227	81.743	132.375	12.964	1.00	139.05	6
ATOM	5307	CB	LEU	C	227	80.978	131.303	13.755	1.00	116.19	6
ATOM	5308	CG	LEU	C	227	81.749	130.059	14.213	1.00	117.20	6
ATOM	5309	CD1	LEU	C	227	80.814	129.071	14.911	1.00	116.00	6
ATOM	5310	CD2	LEU	C	227	82.392	129.404	13.005	1.00	117.61	6
ATOM	5311	C	LEU	C	227	80.763	133.415	12.437	1.00	138.64	6

ATOM	5312	O	LEU	C	227	80.368	133.379	11.275	1.00138.91	8
ATOM	5313	N	ALA	C	228	80.384	134.346	13.306	1.00 65.37	7
ATOM	5314	CA	ALA	C	228	79.458	135.424	12.952	1.00 65.33	6
ATOM	5315	CB	ALA	C	228	78.777	135.959	14.211	1.00126.31	6
ATOM	5316	C	ALA	C	228	80.143	136.578	12.213	1.00 65.44	6
ATOM	5317	O	ALA	C	228	79.798	137.742	12.416	1.00 65.01	8
ATOM	5318	N	MET	C	229	81.103	136.245	11.353	1.00105.03	7
ATOM	5319	CA	MET	C	229	81.842	137.245	10.588	1.00104.42	6
ATOM	5320	CB	MET	C	229	83.326	137.179	10.950	1.00208.87	6
ATOM	5321	CG	MET	C	229	83.622	137.635	12.361	1.00208.87	6
ATOM	5322	SD	MET	C	229	82.935	139.271	12.666	1.00208.87	16
ATOM	5323	CE	MET	C	229	84.185	140.325	11.847	1.00208.87	6
ATOM	5324	C	MET	C	229	81.686	137.148	9.068	1.00102.40	6
ATOM	5325	O	MET	C	229	82.146	138.029	8.341	1.00101.26	8
ATOM	5326	N	ARG	C	230	81.046	136.085	8.590	1.00 66.08	7
ATOM	5327	CA	ARG	C	230	80.836	135.900	7.157	1.00 65.23	6
ATOM	5328	CB	ARG	C	230	82.188	135.731	6.454	1.00105.16	6
ATOM	5329	CG	ARG	C	230	83.196	134.900	7.239	1.00106.81	6
ATOM	5330	CD	ARG	C	230	84.492	134.702	6.457	1.00107.45	6
ATOM	5331	NE	ARG	C	230	85.550	134.118	7.281	1.00108.11	7
ATOM	5332	CZ	ARG	C	230	86.117	134.732	8.316	1.00108.21	6
ATOM	5333	NH1	ARG	C	230	85.732	135.953	8.659	1.00107.49	7
ATOM	5334	NH2	ARG	C	230	87.069	134.123	9.010	1.00109.17	7
ATOM	5335	C	ARG	C	230	79.937	134.708	6.824	1.00 63.26	6
ATOM	5336	O	ARG	C	230	80.314	133.558	7.054	1.00 63.36	8
ATOM	5337	N	PRO	C	231	78.733	134.962	6.275	1.00140.24	7
ATOM	5338	CD	PRO	C	231	78.185	136.252	5.826	1.00 42.06	6
ATOM	5339	CA	PRO	C	231	77.822	133.864	5.926	1.00138.58	6
ATOM	5340	CB	PRO	C	231	76.584	134.590	5.399	1.00 40.00	6
ATOM	5341	CG	PRO	C	231	77.154	135.818	4.804	1.00 41.60	6
ATOM	5342	C	PRO	C	231	78.474	132.999	4.866	1.00137.86	6
ATOM	5343	O	PRO	C	231	79.656	133.162	4.589	1.00139.31	8
ATOM	5344	N	GLU	C	232	77.715	132.091	4.267	1.00 77.90	7
ATOM	5345	CA	GLU	C	232	78.268	131.224	3.231	1.00 75.34	6
ATOM	5346	CB	GLU	C	232	78.744	132.063	2.036	1.00 99.87	6
ATOM	5347	CG	GLU	C	232	79.165	131.268	0.789	1.00100.05	6
ATOM	5348	CD	GLU	C	232	80.578	130.706	0.863	1.00 99.76	6
ATOM	5349	OE1	GLU	C	232	80.817	129.769	1.652	1.00 99.37	8
ATOM	5350	OE2	GLU	C	232	81.451	131.208	0.122	1.00100.08	8
ATOM	5351	C	GLU	C	232	79.435	130.438	3.810	1.00 73.40	6
ATOM	5352	O	GLU	C	232	79.314	129.245	4.083	1.00 73.09	8
ATOM	5353	N	GLU	C	233	80.569	131.110	3.985	1.00 73.71	7
ATOM	5354	CA	GLU	C	233	81.753	130.488	4.561	1.00 71.34	6
ATOM	5355	CB	GLU	C	233	82.771	131.564	4.953	1.00 69.36	6
ATOM	5356	CG	GLU	C	233	84.231	131.127	4.910	1.00 67.28	6
ATOM	5357	CD	GLU	C	233	84.578	130.039	5.918	1.00 66.29	6
ATOM	5358	OE1	GLU	C	233	84.483	130.293	7.137	1.00 65.59	8
ATOM	5359	OE2	GLU	C	233	84.957	128.927	5.493	1.00 66.13	8
ATOM	5360	C	GLU	C	233	81.224	129.791	5.803	1.00 70.23	6
ATOM	5361	O	GLU	C	233	81.790	128.802	6.274	1.00 70.93	8
ATOM	5362	N	ALA	C	234	80.107	130.323	6.302	1.00 99.90	7
ATOM	5363	CA	ALA	C	234	79.418	129.814	7.483	1.00 97.62	6
ATOM	5364	CB	ALA	C	234	78.408	130.846	7.971	1.00 76.06	6
ATOM	5365	C	ALA	C	234	78.719	128.473	7.229	1.00 95.90	6
ATOM	5366	O	ALA	C	234	79.022	127.481	7.899	1.00 95.75	8
ATOM	5367	N	MET	C	235	77.783	128.442	6.278	1.00 65.06	7

ATOM	5368	CA	MET	C	235	77.074	127.203	5.954	1.00	62.59	6
ATOM	5369	CB	MET	C	235	76.397	127.298	4.594	1.00	48.98	6
ATOM	5370	CG	MET	C	235	75.708	128.597	4.319	1.00	48.48	6
ATOM	5371	SD	MET	C	235	74.890	128.508	2.715	1.00	48.43	16
ATOM	5372	CE	MET	C	235	73.125	128.459	3.250	1.00	47.57	6
ATOM	5373	C	MET	C	235	78.097	126.075	5.879	1.00	62.17	6
ATOM	5374	O	MET	C	235	77.866	124.969	6.374	1.00	61.98	8
ATOM	5375	N	VAL	C	236	79.230	126.374	5.247	1.00	38.65	7
ATOM	5376	CA	VAL	C	236	80.299	125.405	5.082	1.00	36.92	6
ATOM	5377	CB	VAL	C	236	81.394	125.946	4.140	1.00	13.87	6
ATOM	5378	CG1	VAL	C	236	82.629	125.036	4.205	1.00	13.87	6
ATOM	5379	CG2	VAL	C	236	80.836	126.039	2.695	1.00	13.87	6
ATOM	5380	C	VAL	C	236	80.909	124.982	6.409	1.00	37.57	6
ATOM	5381	O	VAL	C	236	81.212	123.811	6.596	1.00	37.03	8
ATOM	5382	N	ARG	C	237	81.097	125.917	7.331	1.00	101.36	7
ATOM	5383	CA	ARG	C	237	81.646	125.545	8.625	1.00	103.24	6
ATOM	5384	CB	ARG	C	237	81.927	126.786	9.464	1.00	117.69	6
ATOM	5385	CG	ARG	C	237	82.957	127.707	8.842	1.00	119.98	6
ATOM	5386	CD	ARG	C	237	84.320	127.050	8.754	1.00	121.93	6
ATOM	5387	NE	ARG	C	237	85.291	127.934	8.115	1.00	125.29	7
ATOM	5388	CZ	ARG	C	237	86.586	127.662	7.993	1.00	126.39	6
ATOM	5389	NH1	ARG	C	237	87.075	126.526	8.471	1.00	127.88	7
ATOM	5390	NH2	ARG	C	237	87.393	128.525	7.390	1.00	126.26	7
ATOM	5391	C	ARG	C	237	80.608	124.657	9.305	1.00	103.63	6
ATOM	5392	O	ARG	C	237	80.951	123.662	9.943	1.00	104.18	8
ATOM	5393	N	LEU	C	238	79.337	125.022	9.157	1.00	56.15	7
ATOM	5394	CA	LEU	C	238	78.240	124.239	9.723	1.00	56.26	6
ATOM	5395	CB	LEU	C	238	76.903	124.969	9.511	1.00	20.59	6
ATOM	5396	CG	LEU	C	238	75.548	124.426	9.996	1.00	18.61	6
ATOM	5397	CD1	LEU	C	238	75.416	124.515	11.505	1.00	17.53	6
ATOM	5398	CD2	LEU	C	238	74.454	125.252	9.356	1.00	17.41	6
ATOM	5399	C	LEU	C	238	78.239	122.899	8.977	1.00	57.78	6
ATOM	5400	O	LEU	C	238	78.290	121.838	9.594	1.00	57.62	8
ATOM	5401	N	PHE	C	239	78.194	122.951	7.648	1.00	50.91	7
ATOM	5402	CA	PHE	C	239	78.203	121.734	6.844	1.00	52.69	6
ATOM	5403	CB	PHE	C	239	78.419	122.071	5.367	1.00	84.65	6
ATOM	5404	CG	PHE	C	239	77.904	121.022	4.414	1.00	84.64	6
ATOM	5405	CD1	PHE	C	239	76.800	121.287	3.594	1.00	85.15	6
ATOM	5406	CD2	PHE	C	239	78.509	119.773	4.333	1.00	83.76	6
ATOM	5407	CE1	PHE	C	239	76.307	120.323	2.707	1.00	85.25	6
ATOM	5408	CE2	PHE	C	239	78.025	118.799	3.450	1.00	83.75	6
ATOM	5409	CZ	PHE	C	239	76.920	119.076	2.636	1.00	84.76	6
ATOM	5410	C	PHE	C	239	79.358	120.871	7.342	1.00	54.23	6
ATOM	5411	O	PHE	C	239	79.191	119.690	7.643	1.00	53.69	8
ATOM	5412	N	THR	C	240	80.531	121.486	7.441	1.00	49.83	7
ATOM	5413	CA	THR	C	240	81.729	120.801	7.891	1.00	53.38	6
ATOM	5414	CB	THR	C	240	82.966	121.696	7.735	1.00	75.67	6
ATOM	5415	OG1	THR	C	240	83.025	122.197	6.392	1.00	76.24	8
ATOM	5416	CG2	THR	C	240	84.234	120.906	8.016	1.00	75.21	6
ATOM	5417	C	THR	C	240	81.583	120.389	9.344	1.00	56.09	6
ATOM	5418	O	THR	C	240	82.509	119.860	9.945	1.00	56.86	8
ATOM	5419	N	LEU	C	241	80.412	120.642	9.912	1.00	88.04	7
ATOM	5420	CA	LEU	C	241	80.148	120.260	11.290	1.00	92.43	6
ATOM	5421	CB	LEU	C	241	79.587	121.432	12.087	1.00	69.60	6
ATOM	5422	CG	LEU	C	241	80.587	122.299	12.847	1.00	68.57	6
ATOM	5423	CD1	LEU	C	241	79.844	123.466	13.468	1.00	68.16	6

ATOM	5424	CD2	LEU	C	241	81.283	121.469	13.917	1.00	68.18	6
ATOM	5425	C	LEU	C	241	79.156	119.113	11.286	1.00	96.01	6
ATOM	5426	O	LEU	C	241	78.653	118.698	12.333	1.00	96.09	8
ATOM	5427	N	LEU	C	242	78.873	118.623	10.083	1.00	88.50	7
ATOM	5428	CA	LEU	C	242	77.969	117.499	9.881	1.00	92.67	6
ATOM	5429	CB	LEU	C	242	76.785	117.901	8.990	1.00161.63	6	6
ATOM	5430	CG	LEU	C	242	75.503	118.336	9.717	1.00162.36	6	6
ATOM	5431	CD1	LEU	C	242	75.769	119.543	10.604	1.00162.25	6	6
ATOM	5432	CD2	LEU	C	242	74.425	118.650	8.692	1.00162.82	6	6
ATOM	5433	C	LEU	C	242	78.739	116.336	9.255	1.00	95.23	6
ATOM	5434	O	LEU	C	242	79.088	116.353	8.070	1.00	96.06	8
ATOM	5435	N	ARG	C	243	79.011	115.340	10.090	1.00208.87	7	7
ATOM	5436	CA	ARG	C	243	79.737	114.140	9.700	1.00208.87	6	6
ATOM	5437	CB	ARG	C	243	79.738	113.152	10.874	1.00203.59	6	6
ATOM	5438	CG	ARG	C	243	80.592	111.913	10.686	1.00206.59	6	6
ATOM	5439	CD	ARG	C	243	80.534	111.041	11.922	1.00208.78	6	6
ATOM	5440	NE	ARG	C	243	81.468	109.924	11.856	1.00208.87	7	7
ATOM	5441	CZ	ARG	C	243	81.642	109.043	12.836	1.00208.87	6	6
ATOM	5442	NH1	ARG	C	243	80.942	109.152	13.958	1.00208.87	7	7
ATOM	5443	NH2	ARG	C	243	82.519	108.057	12.699	1.00208.87	7	7
ATOM	5444	C	ARG	C	243	79.086	113.497	8.477	1.00208.87	6	6
ATOM	5445	O	ARG	C	243	77.873	113.592	8.289	1.00208.87	8	8
ATOM	5446	N	PRO	C	244	79.890	112.842	7.621	1.00168.13	7	7
ATOM	5447	CD	PRO	C	244	79.366	111.947	6.570	1.00208.87	6	6
ATOM	5448	CA	PRO	C	244	81.341	112.685	7.754	1.00167.55	6	6
ATOM	5449	CB	PRO	C	244	81.594	111.349	7.073	1.00208.87	6	6
ATOM	5450	CG	PRO	C	244	80.636	111.410	5.925	1.00208.87	6	6
ATOM	5451	C	PRO	C	244	82.105	113.829	7.092	1.00167.24	6	6
ATOM	5452	O	PRO	C	244	81.603	114.949	6.984	1.00167.12	8	8
ATOM	5453	N	GLY	C	245	83.321	113.533	6.649	1.00141.10	7	7
ATOM	5454	CA	GLY	C	245	84.130	114.541	5.997	1.00140.05	6	6
ATOM	5455	C	GLY	C	245	83.762	114.705	4.536	1.00138.99	6	6
ATOM	5456	O	GLY	C	245	84.517	114.311	3.649	1.00139.36	8	8
ATOM	5457	N	ASP	C	246	82.587	115.270	4.282	1.00	91.31	7
ATOM	5458	CA	ASP	C	246	82.136	115.501	2.915	1.00	90.57	6
ATOM	5459	CB	ASP	C	246	80.625	115.749	2.900	1.00180.76	6	6
ATOM	5460	CG	ASP	C	246	79.827	114.481	3.112	1.00181.48	6	6
ATOM	5461	OD1	ASP	C	246	80.029	113.518	2.343	1.00181.22	8	8
ATOM	5462	OD2	ASP	C	246	78.993	114.449	4.041	1.00181.84	8	8
ATOM	5463	C	ASP	C	246	82.883	116.710	2.339	1.00	89.74	6
ATOM	5464	O	ASP	C	246	83.858	117.180	2.927	1.00	90.14	8
ATOM	5465	N	PRO	C	247	82.446	117.227	1.182	1.00114.04	7	7
ATOM	5466	CD	PRO	C	247	81.519	116.670	0.181	1.00194.03	6	6
ATOM	5467	CA	PRO	C	247	83.163	118.382	0.634	1.00113.17	6	6
ATOM	5468	CB	PRO	C	247	82.840	118.302	-0.852	1.00194.32	6	6
ATOM	5469	CG	PRO	C	247	81.437	117.785	-0.839	1.00194.34	6	6
ATOM	5470	C	PRO	C	247	82.747	119.722	1.238	1.00111.52	6	6
ATOM	5471	O	PRO	C	247	81.607	120.157	1.066	1.00111.58	8	8
ATOM	5472	N	PRO	C	248	83.668	120.397	1.955	1.00	92.49	7
ATOM	5473	CD	PRO	C	248	84.997	119.930	2.389	1.00	76.77	6
ATOM	5474	CA	PRO	C	248	83.357	121.692	2.566	1.00	90.62	6
ATOM	5475	CB	PRO	C	248	84.686	122.105	3.185	1.00	75.12	6
ATOM	5476	CG	PRO	C	248	85.268	120.801	3.596	1.00	75.76	6
ATOM	5477	C	PRO	C	248	82.867	122.693	1.530	1.00	88.92	6
ATOM	5478	O	PRO	C	248	82.450	123.794	1.862	1.00	89.53	8
ATOM	5479	N	LYS	C	249	82.917	122.301	0.267	1.00	61.79	7



ATOM	5480	CA	LYS	C	249	82.472	123.171	-0.805	1.00	59.51	6
ATOM	5481	CB	LYS	C	249	82.371	122.373	-2.107	1.00	157.18	6
ATOM	5482	CG	LYS	C	249	82.144	123.214	-3.355	1.00	158.15	6
ATOM	5483	CD	LYS	C	249	82.300	122.371	-4.617	1.00	157.76	6
ATOM	5484	CE	LYS	C	249	82.232	123.225	-5.873	1.00	157.27	6
ATOM	5485	NZ	LYS	C	249	82.505	122.427	-7.101	1.00	156.24	7
ATOM	5486	C	LYS	C	249	81.124	123.798	-0.468	1.00	58.08	6
ATOM	5487	O	LYS	C	249	80.211	123.108	-0.023	1.00	57.68	8
ATOM	5488	N	LYS	C	250	81.028	125.112	-0.661	1.00	52.07	7
ATOM	5489	CA	LYS	C	250	79.811	125.902	-0.424	1.00	51.13	6
ATOM	5490	CB	LYS	C	250	80.003	127.283	-1.044	1.00	84.19	6
ATOM	5491	CG	LYS	C	250	80.498	127.165	-2.489	1.00	84.65	6
ATOM	5492	CD	LYS	C	250	80.484	128.462	-3.273	1.00	84.80	6
ATOM	5493	CE	LYS	C	250	80.930	128.190	-4.711	1.00	84.35	6
ATOM	5494	NZ	LYS	C	250	80.889	129.393	-5.590	1.00	85.51	7
ATOM	5495	C	LYS	C	250	78.621	125.230	-1.113	1.00	49.81	6
ATOM	5496	O	LYS	C	250	78.672	124.996	-2.319	1.00	49.67	8
ATOM	5497	N	ASP	C	251	77.544	124.940	-0.384	1.00	208.87	7
ATOM	5498	CA	ASP	C	251	76.402	124.280	-1.018	1.00	208.87	6
ATOM	5499	CB	ASP	C	251	76.330	122.816	-0.574	1.00	84.58	6
ATOM	5500	CG	ASP	C	251	76.918	121.878	-1.606	1.00	84.74	6
ATOM	5501	OD1	ASP	C	251	76.399	121.850	-2.741	1.00	83.90	8
ATOM	5502	OD2	ASP	C	251	77.902	121.177	-1.293	1.00	85.22	8
ATOM	5503	C	ASP	C	251	75.005	124.887	-0.930	1.00	208.87	6
ATOM	5504	O	ASP	C	251	74.339	125.020	-1.956	1.00	208.87	8
ATOM	5505	N	LYS	C	252	74.553	125.244	0.271	1.00	89.65	7
ATOM	5506	CA	LYS	C	252	73.211	125.805	0.443	1.00	86.82	6
ATOM	5507	CB	LYS	C	252	72.848	126.755	-0.715	1.00	69.45	6
ATOM	5508	CG	LYS	C	252	71.372	127.168	-0.758	1.00	69.86	6
ATOM	5509	CD	LYS	C	252	71.070	128.283	-1.777	1.00	69.45	6
ATOM	5510	CE	LYS	C	252	69.607	128.763	-1.668	1.00	69.19	6
ATOM	5511	NZ	LYS	C	252	69.233	129.903	-2.562	1.00	67.70	7
ATOM	5512	C	LYS	C	252	72.217	124.648	0.495	1.00	85.53	6
ATOM	5513	O	LYS	C	252	71.167	124.741	1.127	1.00	85.56	8
ATOM	5514	N	ALA	C	253	72.562	123.557	-0.179	1.00	104.71	7
ATOM	5515	CA	ALA	C	253	71.717	122.373	-0.200	1.00	102.89	6
ATOM	5516	CB	ALA	C	253	72.163	121.442	-1.294	1.00	66.25	6
ATOM	5517	C	ALA	C	253	71.848	121.695	1.156	1.00	101.99	6
ATOM	5518	O	ALA	C	253	72.812	121.965	1.881	1.00	103.16	8
ATOM	5519	N	LEU	C	254	70.898	120.814	1.486	1.00	67.47	7
ATOM	5520	CA	LEU	C	254	70.883	120.112	2.779	1.00	64.85	6
ATOM	5521	CB	LEU	C	254	72.302	119.723	3.209	1.00	30.25	6
ATOM	5522	CG	LEU	C	254	72.776	119.888	4.649	1.00	28.08	6
ATOM	5523	CD1	LEU	C	254	71.826	119.234	5.637	1.00	27.43	6
ATOM	5524	CD2	LEU	C	254	74.148	119.271	4.739	1.00	27.06	6
ATOM	5525	C	LEU	C	254	70.292	121.095	3.760	1.00	64.57	6
ATOM	5526	O	LEU	C	254	69.409	120.749	4.542	1.00	64.88	8
ATOM	5527	N	ALA	C	255	70.823	122.318	3.710	1.00	46.43	7
ATOM	5528	CA	ALA	C	255	70.357	123.440	4.510	1.00	45.16	6
ATOM	5529	CB	ALA	C	255	71.494	124.433	4.786	1.00	13.87	6
ATOM	5530	C	ALA	C	255	69.338	124.024	3.539	1.00	45.33	6
ATOM	5531	O	ALA	C	255	68.816	125.113	3.713	1.00	46.26	8
ATOM	5532	N	TYR	C	256	69.089	123.253	2.490	1.00	49.19	7
ATOM	5533	CA	TYR	C	256	68.123	123.574	1.455	1.00	49.69	6
ATOM	5534	CB	TYR	C	256	68.525	122.884	0.152	1.00	113.70	6
ATOM	5535	CG	TYR	C	256	68.211	123.616	-1.137	1.00	116.52	6

ATOM	5536	CD1	TYR	C	256	69.006	124.680	-1.570	1.00117.43	6
ATOM	5537	CE1	TYR	C	256	68.790	125.288	-2.814	1.00117.60	6
ATOM	5538	CD2	TYR	C	256	67.179	123.183	-1.974	1.00117.49	6
ATOM	5539	CE2	TYR	C	256	66.952	123.783	-3.219	1.00117.99	6
ATOM	5540	CZ	TYR	C	256	67.764	124.832	-3.635	1.00117.79	6
ATOM	5541	OH	TYR	C	256	67.572	125.402	-4.878	1.00116.97	8
ATOM	5542	C	TYR	C	256	66.885	122.887	2.013	1.00 49.09	6
ATOM	5543	O	TYR	C	256	65.848	122.828	1.369	1.00 48.84	8
ATOM	5544	N	LEU	C	257	67.043	122.339	3.216	1.00 77.53	7
ATOM	5545	CA	LEU	C	257	66.002	121.617	3.947	1.00 77.28	6
ATOM	5546	CB	LEU	C	257	66.437	120.174	4.204	1.00116.17	6
ATOM	5547	CG	LEU	C	257	66.891	119.307	3.028	1.00117.61	6
ATOM	5548	CD1	LEU	C	257	67.935	118.302	3.512	1.00118.96	6
ATOM	5549	CD2	LEU	C	257	65.683	118.612	2.400	1.00116.94	6
ATOM	5550	C	LEU	C	257	65.889	122.323	5.281	1.00 76.11	6
ATOM	5551	O	LEU	C	257	65.799	123.544	5.314	1.00 76.74	8
ATOM	5552	N	PHE	C	258	65.934	121.543	6.366	1.00 66.70	7
ATOM	5553	CA	PHE	C	258	65.856	122.057	7.739	1.00 65.52	6
ATOM	5554	CB	PHE	C	258	67.227	122.053	8.407	1.00 60.51	6
ATOM	5555	CG	PHE	C	258	67.903	120.721	8.405	1.00 61.13	6
ATOM	5556	CD1	PHE	C	258	68.146	120.052	7.216	1.00 60.44	6
ATOM	5557	CD2	PHE	C	258	68.352	120.159	9.594	1.00 61.98	6
ATOM	5558	CE1	PHE	C	258	68.829	118.853	7.213	1.00 60.93	6
ATOM	5559	CE2	PHE	C	258	69.041	118.954	9.601	1.00 61.63	6
ATOM	5560	CZ	PHE	C	258	69.280	118.302	8.413	1.00 61.42	6
ATOM	5561	C	PHE	C	258	65.349	123.479	7.735	1.00 65.21	6
ATOM	5562	O	PHE	C	258	65.923	124.359	8.385	1.00 65.27	8
ATOM	5563	N	GLY	C	259	64.269	123.685	6.990	1.00 42.12	7
ATOM	5564	CA	GLY	C	259	63.679	124.995	6.850	1.00 40.93	6
ATOM	5565	C	GLY	C	259	63.238	125.119	5.408	1.00 40.90	6
ATOM	5566	O	GLY	C	259	62.037	125.170	5.129	1.00 40.65	8
ATOM	5567	N	LEU	C	260	64.200	125.147	4.485	1.00 31.09	7
ATOM	5568	CA	LEU	C	260	63.864	125.273	3.067	1.00 32.91	6
ATOM	5569	CB	LEU	C	260	65.137	125.288	2.195	1.00 54.75	6
ATOM	5570	CG	LEU	C	260	65.062	125.650	0.688	1.00 53.93	6
ATOM	5571	CD1	LEU	C	260	66.449	125.979	0.197	1.00 54.88	6
ATOM	5572	CD2	LEU	C	260	64.503	124.532	-0.167	1.00 53.12	6
ATOM	5573	C	LEU	C	260	62.942	124.139	2.627	1.00 33.56	6
ATOM	5574	O	LEU	C	260	62.855	123.107	3.286	1.00 32.20	8
ATOM	5575	N	LEU	C	261	62.252	124.360	1.514	1.00 74.26	7
ATOM	5576	CA	LEU	C	261	61.329	123.396	0.923	1.00 76.02	6
ATOM	5577	CB	LEU	C	261	62.083	122.408	0.015	1.00 80.87	6
ATOM	5578	CG	LEU	C	261	62.573	121.041	0.505	1.00 80.48	6
ATOM	5579	CD1	LEU	C	261	63.112	120.264	-0.688	1.00 80.79	6
ATOM	5580	CD2	LEU	C	261	63.641	121.187	1.559	1.00 80.51	6
ATOM	5581	C	LEU	C	261	60.452	122.621	1.894	1.00 77.26	6
ATOM	5582	O	LEU	C	261	60.928	121.854	2.729	1.00 76.99	8
ATOM	5583	N	ALA	C	262	59.150	122.829	1.751	1.00 44.61	7
ATOM	5584	CA	ALA	C	262	58.168	122.171	2.580	1.00 45.54	6
ATOM	5585	CB	ALA	C	262	56.803	122.666	2.190	1.00 13.87	6
ATOM	5586	C	ALA	C	262	58.260	120.654	2.404	1.00 47.51	6
ATOM	5587	O	ALA	C	262	57.279	119.934	2.626	1.00 48.30	8
ATOM	5588	N	ASP	C	263	59.439	120.171	2.009	1.00 48.36	7
ATOM	5589	CA	ASP	C	263	59.652	118.743	1.785	1.00 51.39	6
ATOM	5590	CB	ASP	C	263	60.790	118.525	0.783	1.00112.70	6
ATOM	5591	CG	ASP	C	263	61.786	117.462	1.243	1.00114.08	6

ATOM	5592	OD1	ASP	C	263	61.369	116.302	1.432	1.00115.21	8
ATOM	5593	OD2	ASP	C	263	62.982	117.786	1.422	1.00113.92	8
ATOM	5594	C	ASP	C	263	59.941	117.941	3.043	1.00 52.97	6
ATOM	5595	O	ASP	C	263	59.361	116.875	3.240	1.00 52.61	8
ATOM	5596	N	PRO	C	264	60.864	118.421	3.893	1.00 61.10	7
ATOM	5597	CD	PRO	C	264	61.992	119.306	3.555	1.00121.93	6
ATOM	5598	CA	PRO	C	264	61.175	117.681	5.114	1.00 63.87	6
ATOM	5599	CB	PRO	C	264	62.656	117.405	4.942	1.00123.85	6
ATOM	5600	CG	PRO	C	264	63.142	118.742	4.415	1.00123.04	6
ATOM	5601	C	PRO	C	264	60.885	118.496	6.377	1.00 65.94	6
ATOM	5602	O	PRO	C	264	61.380	118.184	7.465	1.00 65.59	8
ATOM	5603	N	LYS	C	265	60.082	119.542	6.232	1.00114.70	7
ATOM	5604	CA	LYS	C	265	59.762	120.389	7.370	1.00117.68	6
ATOM	5605	CB	LYS	C	265	60.964	121.290	7.703	1.00 69.15	6
ATOM	5606	CG	LYS	C	265	60.841	122.110	8.987	1.00 68.89	6
ATOM	5607	CD	LYS	C	265	61.275	121.307	10.208	1.00 69.00	6
ATOM	5608	CE	LYS	C	265	61.219	122.141	11.486	1.00 69.27	6
ATOM	5609	NZ	LYS	C	265	61.710	121.388	12.683	1.00 69.17	7
ATOM	5610	C	LYS	C	265	58.551	121.253	7.062	1.00120.01	6
ATOM	5611	O	LYS	C	265	58.690	122.360	6.555	1.00119.67	8
ATOM	5612	N	ARG	C	266	57.361	120.744	7.345	1.00 80.91	7
ATOM	5613	CA	ARG	C	266	56.165	121.534	7.118	1.00 84.78	6
ATOM	5614	CB	ARG	C	266	55.942	121.783	5.618	1.00126.80	6
ATOM	5615	CG	ARG	C	266	54.875	120.918	4.943	1.00129.36	6
ATOM	5616	CD	ARG	C	266	54.358	121.611	3.679	1.00131.03	6
ATOM	5617	NE	ARG	C	266	53.368	120.833	2.937	1.00132.53	7
ATOM	5618	CZ	ARG	C	266	52.662	121.309	1.913	1.00133.01	6
ATOM	5619	NH1	ARG	C	266	52.830	122.562	1.506	1.00132.55	7
ATOM	5620	NH2	ARG	C	266	51.783	120.534	1.295	1.00134.02	7
ATOM	5621	C	ARG	C	266	54.921	120.928	7.740	1.00 86.59	6
ATOM	5622	O	ARG	C	266	54.568	119.779	7.482	1.00 86.90	8
ATOM	5623	N	TYR	C	267	54.265	121.726	8.574	1.00163.69	7
ATOM	5624	CA	TYR	C	267	53.044	121.312	9.244	1.00165.06	6
ATOM	5625	CB	TYR	C	267	52.944	121.975	10.629	1.00 86.31	6
ATOM	5626	CG	TYR	C	267	54.289	122.359	11.228	1.00 86.21	6
ATOM	5627	CD1	TYR	C	267	54.387	123.415	12.128	1.00 87.05	6
ATOM	5628	CE1	TYR	C	267	55.630	123.863	12.590	1.00 86.89	6
ATOM	5629	CD2	TYR	C	267	55.472	121.743	10.815	1.00 85.28	6
ATOM	5630	CE2	TYR	C	267	56.713	122.182	11.267	1.00 85.79	6
ATOM	5631	CZ	TYR	C	267	56.785	123.245	12.151	1.00 86.10	6
ATOM	5632	OH	TYR	C	267	58.007	123.714	12.572	1.00 85.99	8
ATOM	5633	C	TYR	C	267	51.975	121.834	8.286	1.00165.93	6
ATOM	5634	O	TYR	C	267	50.838	122.116	8.669	1.00166.25	8
ATOM	5635	N	ASP	C	268	52.406	121.959	7.030	1.00129.89	7
ATOM	5636	CA	ASP	C	268	51.617	122.416	5.888	1.00131.45	6
ATOM	5637	CB	ASP	C	268	51.233	121.210	5.003	1.00182.27	6
ATOM	5638	CG	ASP	C	268	50.760	119.998	5.806	1.00183.34	6
ATOM	5639	OD1	ASP	C	268	51.580	119.405	6.540	1.00183.74	8
ATOM	5640	OD2	ASP	C	268	49.568	119.633	5.694	1.00184.62	8
ATOM	5641	C	ASP	C	268	50.382	123.275	6.142	1.00131.54	6
ATOM	5642	O	ASP	C	268	50.344	124.063	7.089	1.00131.27	8
ATOM	5643	N	ALA	C	269	49.399	123.121	5.247	1.00198.05	7
ATOM	5644	CA	ALA	C	269	48.109	123.819	5.275	1.00197.81	6
ATOM	5645	CB	ALA	C	269	47.081	122.971	6.053	1.00 84.50	6
ATOM	5646	C	ALA	C	269	48.179	125.228	5.856	1.00197.19	6
ATOM	5647	O	ALA	C	269	48.035	126.228	5.150	1.00197.51	8

ATOM	5648	N	GLY	C	270	48.391	125.284	7.160	1.00123.16	7
ATOM	5649	CA	GLY	C	270	48.487	126.544	7.854	1.00121.84	6
ATOM	5650	C	GLY	C	270	48.242	126.229	9.311	1.00121.58	6
ATOM	5651	O	GLY	C	270	48.893	126.770	10.200	1.00121.86	8
ATOM	5652	N	GLU	C	271	47.312	125.314	9.548	1.00 56.86	7
ATOM	5653	CA	GLU	C	271	46.955	124.928	10.900	1.00 56.02	6
ATOM	5654	CB	GLU	C	271	45.659	124.117	10.870	1.00103.22	6
ATOM	5655	CG	GLU	C	271	44.493	124.851	10.224	1.00102.91	6
ATOM	5656	CD	GLU	C	271	44.210	126.195	10.872	1.00103.24	6
ATOM	5657	OE1	GLU	C	271	43.798	126.221	12.052	1.00103.46	8
ATOM	5658	OE2	GLU	C	271	44.399	127.226	10.196	1.00103.93	8
ATOM	5659	C	GLU	C	271	48.040	124.144	11.635	1.00 55.94	6
ATOM	5660	O	GLU	C	271	48.949	123.584	11.020	1.00 55.00	8
ATOM	5661	N	ALA	C	272	47.925	124.145	12.963	1.00136.30	7
ATOM	5662	CA	ALA	C	272	48.822	123.445	13.883	1.00137.12	6
ATOM	5663	CB	ALA	C	272	48.819	121.943	13.563	1.00 70.85	6
ATOM	5664	C	ALA	C	272	50.265	123.957	13.996	1.00138.00	6
ATOM	5665	O	ALA	C	272	51.048	123.432	14.792	1.00138.36	8
ATOM	5666	N	GLY	C	273	50.622	124.980	13.225	1.00107.29	7
ATOM	5667	CA	GLY	C	273	51.981	125.498	13.293	1.00107.57	6
ATOM	5668	C	GLY	C	273	52.072	127.006	13.427	1.00107.38	6
ATOM	5669	O	GLY	C	273	52.775	127.532	14.290	1.00106.84	8
ATOM	5670	N	ARG	C	274	51.371	127.708	12.548	1.00163.77	7
ATOM	5671	CA	ARG	C	274	51.368	129.155	12.597	1.00164.91	6
ATOM	5672	CB	ARG	C	274	50.629	129.729	11.382	1.00130.45	6
ATOM	5673	CG	ARG	C	274	49.139	129.418	11.330	1.00130.94	6
ATOM	5674	CD	ARG	C	274	48.559	129.727	9.960	1.00131.16	6
ATOM	5675	NE	ARG	C	274	47.121	129.490	9.909	1.00132.12	7
ATOM	5676	CZ	ARG	C	274	46.406	129.467	8.788	1.00132.41	6
ATOM	5677	NH1	ARG	C	274	46.998	129.664	7.614	1.00131.64	7
ATOM	5678	NH2	ARG	C	274	45.098	129.252	8.842	1.00133.00	7
ATOM	5679	C	ARG	C	274	50.648	129.516	13.886	1.00165.08	6
ATOM	5680	O	ARG	C	274	51.175	130.255	14.717	1.00165.31	8
ATOM	5681	N	TYR	C	275	49.450	128.965	14.055	1.00126.35	7
ATOM	5682	CA	TYR	C	275	48.652	129.214	15.243	1.00127.24	6
ATOM	5683	CB	TYR	C	275	47.471	128.246	15.304	1.00208.45	6
ATOM	5684	CG	TYR	C	275	46.313	128.627	14.412	1.00208.87	6
ATOM	5685	CD1	TYR	C	275	46.488	128.794	13.040	1.00208.87	6
ATOM	5686	CE1	TYR	C	275	45.421	129.137	12.213	1.00208.87	6
ATOM	5687	CD2	TYR	C	275	45.036	128.812	14.940	1.00208.87	6
ATOM	5688	CE2	TYR	C	275	43.960	129.154	14.122	1.00208.87	6
ATOM	5689	CZ	TYR							

ATOM	5704	CA	GLU	C	278	52.138	132.970	16.553	1.00159.25	6
ATOM	5705	CB	GLU	C	278	51.176	133.072	15.363	1.00206.63	6
ATOM	5706	CG	GLU	C	278	50.658	134.491	15.119	1.00208.87	6
ATOM	5707	CD	GLU	C	278	49.767	134.604	13.893	1.00208.87	6
ATOM	5708	OE1	GLU	C	278	48.678	133.994	13.882	1.00208.87	8
ATOM	5709	OE2	GLU	C	278	50.158	135.306	12.936	1.00208.87	8
ATOM	5710	C	GLU	C	278	51.398	133.302	17.834	1.00158.42	6
ATOM	5711	O	GLU	C	278	51.175	134.468	18.147	1.00158.85	8
ATOM	5712	N	GLU	C	279	51.007	132.278	18.576	1.00 95.46	7
ATOM	5713	CA	GLU	C	279	50.313	132.511	19.825	1.00 93.85	6
ATOM	5714	CB	GLU	C	279	48.905	131.927	19.770	1.00 94.99	6
ATOM	5715	CG	GLU	C	279	47.952	132.709	18.864	1.00 95.71	6
ATOM	5716	CD	GLU	C	279	47.892	134.192	19.207	1.00 96.88	6
ATOM	5717	OE1	GLU	C	279	47.698	134.525	20.394	1.00 97.18	8
ATOM	5718	OE2	GLU	C	279	48.031	135.033	18.292	1.00 98.81	8
ATOM	5719	C	GLU	C	279	51.115	131.910	20.960	1.00 92.63	6
ATOM	5720	O	GLU	C	279	50.578	131.279	21.865	1.00 93.45	8
ATOM	5721	N	LYS	C	280	52.420	132.124	20.885	1.00 48.25	7
ATOM	5722	CA	LYS	C	280	53.374	131.649	21.877	1.00 47.22	6
ATOM	5723	CB	LYS	C	280	53.812	130.213	21.571	1.00149.55	6
ATOM	5724	CG	LYS	C	280	52.707	129.162	21.590	1.00151.23	6
ATOM	5725	CD	LYS	C	280	52.316	128.745	23.004	1.00151.98	6
ATOM	5726	CE	LYS	C	280	51.303	127.596	22.974	1.00152.43	6
ATOM	5727	NZ	LYS	C	280	50.930	127.093	24.331	1.00151.40	7
ATOM	5728	C	LYS	C	280	54.570	132.581	21.718	1.00 46.41	6
ATOM	5729	O	LYS	C	280	55.041	133.204	22.673	1.00 45.83	8
ATOM	5730	N	LEU	C	281	55.052	132.666	20.484	1.00 94.79	7
ATOM	5731	CA	LEU	C	281	56.181	133.514	20.143	1.00 94.93	6
ATOM	5732	CB	LEU	C	281	56.928	132.932	18.942	1.00 69.65	6
ATOM	5733	CG	LEU	C	281	57.586	131.565	19.112	1.00 70.36	6
ATOM	5734	CD1	LEU	C	281	58.050	131.071	17.764	1.00 69.69	6
ATOM	5735	CD2	LEU	C	281	58.744	131.665	20.082	1.00 70.93	6
ATOM	5736	C	LEU	C	281	55.652	134.898	19.794	1.00 95.02	6
ATOM	5737	O	LEU	C	281	54.462	135.169	19.946	1.00 94.94	8
ATOM	5738	N	GLY	C	282	56.543	135.764	19.322	1.00208.87	7
ATOM	5739	CA	GLY	C	282	56.153	137.113	18.954	1.00208.87	6
ATOM	5740	C	GLY	C	282	54.832	137.162	18.213	1.00208.87	6
ATOM	5741	O	GLY	C	282	53.907	137.837	18.658	1.00208.87	8
ATOM	5742	N	VAL	C	283	54.756	136.438	17.096	1.00107.38	7
ATOM	5743	CA	VAL	C	283	53.568	136.359	16.239	1.00106.04	6
ATOM	5744	CB	VAL	C	283	52.587	137.562	16.457	1.00159.21	6
ATOM	5745	CG1	VAL	C	283	51.944	137.990	15.142	1.00159.40	6
ATOM	5746	CG2	VAL	C	283	51.490	137.167	17.433	1.00158.58	6
ATOM	5747	C	VAL	C	283	54.040	136.358	14.795	1.00105.26	6
ATOM	5748	O	VAL	C	283	55.190	136.684	14.520	1.00106.40	8
ATOM	5749	N	GLY	C	284	53.152	135.980	13.882	1.00 79.40	7
ATOM	5750	CA	GLY	C	284	53.495	135.955	12.473	1.00 78.56	6
ATOM	5751	C	GLY	C	284	54.516	134.892	12.116	1.00 78.47	6
ATOM	5752	O	GLY	C	284	55.423	134.604	12.898	1.00 78.70	8
ATOM	5753	N	LEU	C	285	54.376	134.312	10.928	1.00 96.55	7
ATOM	5754	CA	LEU	C	285	55.292	133.272	10.475	1.00 95.68	6
ATOM	5755	CB	LEU	C	285	55.217	132.086	11.426	1.00 67.63	6
ATOM	5756	CG	LEU	C	285	56.501	131.361	11.808	1.00 66.94	6
ATOM	5757	CD1	LEU	C	285	56.192	130.527	13.029	1.00 66.94	6
ATOM	5758	CD2	LEU	C	285	57.019	130.489	10.669	1.00 66.84	6
ATOM	5759	C	LEU	C	285	54.866	132.852	9.077	1.00 95.70	6

ATOM	5760	O	LEU	C	285	54.099	133.559	8.434	1.00	95.72	8
ATOM	5761	N	SER	C	286	55.351	131.705	8.609	1.00	140.80	7
ATOM	5762	CA	SER	C	286	55.001	131.229	7.274	1.00	140.03	6
ATOM	5763	CB	SER	C	286	55.741	132.051	6.207	1.00	102.60	6
ATOM	5764	OG	SER	C	286	55.555	133.446	6.381	1.00	101.88	8
ATOM	5765	C	SER	C	286	55.343	129.753	7.072	1.00	139.39	6
ATOM	5766	O	SER	C	286	56.515	129.401	6.961	1.00	139.47	8
ATOM	5767	N	GLY	C	287	54.322	128.900	7.028	1.00	95.77	7
ATOM	5768	CA	GLY	C	287	54.532	127.474	6.805	1.00	95.78	6
ATOM	5769	C	GLY	C	287	55.666	126.736	7.510	1.00	96.06	6
ATOM	5770	O	GLY	C	287	55.409	125.965	8.437	1.00	95.73	8
ATOM	5771	N	ALA	C	288	56.912	126.945	7.071	1.00	94.57	7
ATOM	5772	CA	ALA	C	288	58.071	126.268	7.671	1.00	94.17	6
ATOM	5773	CB	ALA	C	288	58.667	125.298	6.676	1.00	50.77	6
ATOM	5774	C	ALA	C	288	59.189	127.159	8.212	1.00	93.74	6
ATOM	5775	O	ALA	C	288	59.444	128.249	7.703	1.00	93.76	8
ATOM	5776	N	THR	C	289	59.862	126.661	9.245	1.00	94.67	7
ATOM	5777	CA	THR	C	289	60.980	127.362	9.869	1.00	95.18	6
ATOM	5778	CB	THR	C	289	61.803	126.430	10.805	1.00	89.75	6
ATOM	5779	OG1	THR	C	289	60.986	125.955	11.885	1.00	89.80	8
ATOM	5780	CG2	THR	C	289	62.991	127.173	11.365	1.00	89.32	6
ATOM	5781	C	THR	C	289	61.898	127.792	8.740	1.00	95.31	6
ATOM	5782	O	THR	C	289	62.015	127.087	7.741	1.00	95.64	8
ATOM	5783	N	LEU	C	290	62.548	128.939	8.902	1.00	55.18	7
ATOM	5784	CA	LEU	C	290	63.465	129.465	7.891	1.00	56.06	6
ATOM	5785	CB	LEU	C	290	64.782	128.695	7.932	1.00	88.40	6
ATOM	5786	CG	LEU	C	290	65.811	129.042	6.857	1.00	88.84	6
ATOM	5787	CD1	LEU	C	290	66.107	130.527	6.877	1.00	89.92	6
ATOM	5788	CD2	LEU	C	290	67.075	128.243	7.104	1.00	88.80	6
ATOM	5789	C	LEU	C	290	62.903	129.441	6.469	1.00	56.25	6
ATOM	5790	O	LEU	C	290	61.992	128.682	6.146	1.00	55.02	8
ATOM	5791	N	VAL	C	291	63.445	130.298	5.619	1.00	81.17	7
ATOM	5792	CA	VAL	C	291	62.994	130.365	4.243	1.00	83.23	6
ATOM	5793	CB	VAL	C	291	61.892	131.437	4.046	1.00	129.94	6
ATOM	5794	CG1	VAL	C	291	61.529	131.544	2.574	1.00	129.79	6
ATOM	5795	CG2	VAL	C	291	60.659	131.080	4.862	1.00	130.39	6
ATOM	5796	C	VAL	C	291	64.176	130.704	3.359	1.00	84.36	6
ATOM	5797	O	VAL	C	291	64.829	131.734	3.536	1.00	83.65	8
ATOM	5798	N	ALA	C	292	64.449	129.814	2.412	1.00	196.81	7
ATOM	5799	CA	ALA	C	292	65.545	129.991	1.475	1.00	198.79	6
ATOM	5800	CB	ALA	C	292	66.540	128.861	1.626	1.00	125.71	6
ATOM	5801	C	ALA	C	292	64.990	130.017	0.058	1.00	200.14	6
ATOM	5802	O	ALA	C	292	63.800	130.267	-0.148	1.00	200.89	8
ATOM	5803	N	PHE	C	293	65.854	129.754	-0.914	1.00	97.14	7
ATOM	5804	CA	PHE	C	293	65.458	129.752	-2.316	1.00	98.47	6
ATOM	5805	CB	PHE	C	293	64.614	128.511	-2.634	1.00	208.87	6
ATOM	5806	CG	PHE	C	293	64.578	128.162	-4.098	1.00	208.87	6
ATOM	5807	CD1	PHE	C	293	65.752	127.851	-4.779	1.00	208.87	6
ATOM	5808	CD2	PHE	C	293	63.376	128.151	-4.798	1.00	208.87	6
ATOM	5809	CE1	PHE	C	293	65.732	127.534	-6.135	1.00	208.87	6
ATOM	5810	CE2	PHE	C	293	63.344	127.835	-6.156	1.00	208.87	6
ATOM	5811	CZ	PHE	C	293	64.526	127.527	-6.824	1.00	208.87	6
ATOM	5812	C	PHE	C	293	64.679	131.019	-2.675	1.00	98.97	6
ATOM	5813	O	PHE	C	293	64.020	131.083	-3.715	1.00	99.42	8
ATOM	5814	N	GLU	C	294	64.748	132.020	-1.802	1.00	165.72	7
ATOM	5815	CA	GLU	C	294	64.078	133.294	-2.039	1.00	166.50	6

ATOM	5816	CB	GLU	C	294	64.121	134.151	-0.775	1.00133.84	6
ATOM	5817	CG	GLU	C	294	63.130	133.742	0.283	1.00135.17	6
ATOM	5818	CD	GLU	C	294	61.717	134.128	-0.086	1.00136.82	6
ATOM	5819	OE1	GLU	C	294	61.464	135.338	-0.270	1.00137.55	8
ATOM	5820	OE2	GLU	C	294	60.859	133.226	-0.192	1.00138.64	8
ATOM	5821	C	GLU	C	294	64.857	133.987	-3.144	1.00166.56	6
ATOM	5822	O	GLU	C	294	64.294	134.476	-4.126	1.00166.41	8
ATOM	5823	N	ASP	C	295	66.170	134.003	-2.953	1.00135.96	7
ATOM	5824	CA	ASP	C	295	67.117	134.607	-3.874	1.00135.93	6
ATOM	5825	CB	ASP	C	295	66.697	136.045	-4.201	1.00 86.41	6
ATOM	5826	CG	ASP	C	295	66.565	136.913	-2.967	1.00 85.80	6
ATOM	5827	OD1	ASP	C	295	65.831	136.526	-2.041	1.00 84.79	8
ATOM	5828	OD2	ASP	C	295	67.200	137.985	-2.927	1.00 86.23	8
ATOM	5829	C	ASP	C	295	68.477	134.582	-3.177	1.00136.47	6
ATOM	5830	O	ASP	C	295	68.875	135.553	-2.530	1.00136.80	8
ATOM	5831	N	GLY	C	296	69.173	133.455	-3.293	1.00110.37	7
ATOM	5832	CA	GLY	C	296	70.470	133.326	-2.655	1.00110.99	6
ATOM	5833	C	GLY	C	296	70.378	133.109	-1.157	1.00111.59	6
ATOM	5834	O	GLY	C	296	70.265	131.972	-0.698	1.00112.40	8
ATOM	5835	N	GLU	C	297	70.414	134.197	-0.391	1.00170.55	7
ATOM	5836	CA	GLU	C	297	70.353	134.110	1.069	1.00170.60	6
ATOM	5837	CB	GLU	C	297	70.454	135.504	1.701	1.00186.63	6
ATOM	5838	CG	GLU	C	297	69.344	136.466	1.302	1.00188.22	6
ATOM	5839	CD	GLU	C	297	69.261	137.676	2.219	1.00188.95	6
ATOM	5840	OE1	GLU	C	297	70.310	138.305	2.478	1.00189.46	8
ATOM	5841	OE2	GLU	C	297	68.143	138.004	2.673	1.00189.15	8
ATOM	5842	C	GLU	C	297	69.095	133.426	1.586	1.00170.34	6
ATOM	5843	O	GLU	C	297	68.225	133.022	0.818	1.00170.10	8
ATOM	5844	N	PHE	C	298	69.019	133.309	2.906	1.00140.37	7
ATOM	5845	CA	PHE	C	298	67.893	132.682	3.577	1.00140.50	6
ATOM	5846	CB	PHE	C	298	68.384	131.530	4.457	1.00139.59	6
ATOM	5847	CG	PHE	C	298	68.795	130.305	3.697	1.00140.10	6
ATOM	5848	CD1	PHE	C	298	69.308	130.399	2.411	1.00140.80	6
ATOM	5849	CD2	PHE	C	298	68.701	129.053	4.289	1.00139.57	6
ATOM	5850	CE1	PHE	C	298	69.714	129.262	1.721	1.00140.82	6
ATOM	5851	CE2	PHE	C	298	69.103	127.913	3.610	1.00139.07	6
ATOM	5852	CZ	PHE	C	298	69.613	128.015	2.327	1.00139.85	6
ATOM	5853	C	PHE	C	298	67.176	133.687	4.462	1.00140.52	6
ATOM	5854	O	PHE	C	298	67.815	134.447	5.185	1.00141.28	8
ATOM	5855	N	LYS	C	299	65.850	133.695	4.400	1.00 97.69	7
ATOM	5856	CA	LYS	C	299	65.072	134.590	5.240	1.00 97.41	6
ATOM	5857	CB	LYS	C	299	64.040	135.377	4.417	1.00101.03	6
ATOM	5858	CG	LYS	C	299	62.904	134.549	3.816	1.00101.43	6
ATOM	5859	CD	LYS	C	299	61.770	135.448	3.323	1.00102.35	6
ATOM	5860	CE	LYS	C	299	60.566	134.637	2.870	1.00103.16	6
ATOM	5861	NZ	LYS	C	299	59.472	135.510	2.363	1.00103.26	7
ATOM	5862	C	LYS	C	299	64.374	133.736	6.296	1.00 96.80	6
ATOM	5863	O	LYS	C	299	63.288	133.208	6.066	1.00 96.71	8
ATOM	5864	N	ASP	C	300	65.010	133.591	7.454	1.00125.77	7
ATOM	5865	CA	ASP	C	300	64.447	132.780	8.526	1.00124.41	6
ATOM	5866	CB	ASP	C	300	65.450	132.619	9.667	1.00119.73	6
ATOM	5867	CG	ASP	C	300	65.503	133.835	10.567	1.00120.65	6
ATOM	5868	OD1	ASP	C	300	65.894	134.916	10.083	1.00121.00	8
ATOM	5869	OD2	ASP	C	300	65.144	133.708	11.757	1.00120.80	8
ATOM	5870	C	ASP	C	300	63.174	133.384	9.081	1.00123.28	6
ATOM	5871	O	ASP	C	300	62.922	134.580	8.948	1.00123.66	8

ATOM	5872	N	GLU	C	301	62.376	132.538	9.713	1.00134.29	7
ATOM	5873	CA	GLU	C	301	61.129	132.969	10.312	1.00132.48	6
ATOM	5874	CB	GLU	C	301	59.957	132.201	9.694	1.00 85.74	6
ATOM	5875	CG	GLU	C	301	59.865	132.246	8.153	1.00 86.85	6
ATOM	5876	CD	GLU	C	301	59.436	133.597	7.591	1.00 87.33	6
ATOM	5877	OE1	GLU	C	301	58.561	134.248	8.198	1.00 88.03	8
ATOM	5878	OE2	GLU	C	301	59.957	133.999	6.529	1.00 87.91	8
ATOM	5879	C	GLU	C	301	61.224	132.687	11.816	1.00130.86	6
ATOM	5880	O	GLU	C	301	61.342	133.612	12.621	1.00131.67	8
ATOM	5881	N	VAL	C	302	61.194	131.407	12.183	1.00150.57	7
ATOM	5882	CA	VAL	C	302	61.283	130.989	13.583	1.00147.82	6
ATOM	5883	CB	VAL	C	302	60.219	129.905	13.907	1.00130.83	6
ATOM	5884	CG1	VAL	C	302	60.690	129.001	15.047	1.00131.76	6
ATOM	5885	CG2	VAL	C	302	58.934	130.574	14.308	1.00131.06	6
ATOM	5886	C	VAL	C	302	62.662	130.445	13.945	1.00145.09	6
ATOM	5887	O	VAL	C	302	63.113	129.464	13.361	1.00145.82	8
ATOM	5888	N	PHE	C	303	63.320	131.081	14.911	1.00103.76	7
ATOM	5889	CA	PHE	C	303	64.638	130.642	15.351	1.00 99.80	6
ATOM	5890	CB	PHE	C	303	65.582	130.499	14.166	1.00 43.70	6
ATOM	5891	CG	PHE	C	303	65.991	129.084	13.898	1.00 41.90	6
ATOM	5892	CD1	PHE	C	303	65.617	128.442	12.728	1.00 41.03	6
ATOM	5893	CD2	PHE	C	303	66.751	128.386	14.819	1.00 41.62	6
ATOM	5894	CE1	PHE	C	303	65.992	127.125	12.478	1.00 40.27	6
ATOM	5895	CE2	PHE	C	303	67.131	127.066	14.574	1.00 42.22	6
ATOM	5896	CZ	PHE	C	303	66.749	126.437	13.399	1.00 41.12	6
ATOM	5897	C	PHE	C	303	65.257	131.580	16.377	1.00 98.71	6
ATOM	5898	O	PHE	C	303	65.676	131.146	17.452	1.00 99.30	8
ATOM	5899	N	LEU	C	304	65.342	132.861	16.034	1.00121.07	7
ATOM	5900	CA	LEU	C	304	65.881	133.866	16.947	1.00117.89	6
ATOM	5901	CB	LEU	C	304	66.549	135.010	16.172	1.00 58.33	6
ATOM	5902	CG	LEU	C	304	66.257	136.475	16.535	1.00 57.60	6
ATOM	5903	CD1	LEU	C	304	67.456	137.347	16.186	1.00 57.31	6
ATOM	5904	CD2	LEU	C	304	65.012	136.958	15.801	1.00 57.48	6
ATOM	5905	C	LEU	C	304	64.746	134.406	17.801	1.00116.09	6
ATOM	5906	O	LEU	C	304	64.939	134.703	18.976	1.00116.63	8
ATOM	5907	N	PRO	C	305	63.542	134.543	17.215	1.00 79.40	7
ATOM	5908	CD	PRO	C	305	63.180	134.343	15.802	1.00 52.04	6
ATOM	5909	CA	PRO	C	305	62.390	135.052	17.962	1.00 77.80	6
ATOM	5910	CB	PRO	C	305	61.261	134.996	16.934	1.00 51.78	6
ATOM	5911	CG	PRO	C	305	61.974	135.230	15.662	1.00 52.39	6
ATOM	5912	C	PRO	C	305	62.115	134.171	19.175	1.00 76.42	6
ATOM	5913	O	PRO	C	305	61.688	134.652	20.230	1.00 75.90	8
ATOM	5914	N	THR	C	306	62.353	132.875	19.013	1.00 64.70	7
ATOM	5915	CA	THR	C	306	62.153	131.944	20.103	1.00 62.16	6
ATOM	5916	CB	THR	C	306	62.114	130.496	19.588	1.00 37.62	6
ATOM	5917	OG1	THR	C	306	60.961	129.845	20.128	1.00 37.49	8
ATOM	5918	CG2	THR	C	306	63.355	129.717	20.003	1.00 36.49	6
ATOM	5919	C	THR	C	306	63.321	132.149	21.062	1.00 61.79	6
ATOM	5920	O	THR	C	306	63.137	132.197	22.279	1.00 62.74	8
ATOM	5921	N	LEU	C	307	64.520	132.283	20.498	1.00 68.15	7
ATOM	5922	CA	LEU	C	307	65.735	132.514	21.276	1.00 66.39	6
ATOM	5923	CB	LEU	C	307	66.900	132.800	20.322	1.00 49.86	6
ATOM	5924	CG	LEU	C	307	68.341	132.691	20.827	1.00 48.12	6
ATOM	5925	CD1	LEU	C	307	68.652	131.276	21.309	1.00 45.23	6
ATOM	5926	CD2	LEU	C	307	69.268	133.098	19.693	1.00 47.43	6
ATOM	5927	C	LEU	C	307	65.405	133.739	22.121	1.00 66.43	6



ATOM	5928	O	LEU	C	307	65.789	133.850	23.285	1.00	66.27	8
ATOM	5929	N	ARG	C	308	64.663	134.647	21.499	1.00	50.53	7
ATOM	5930	CA	ARG	C	308	64.186	135.871	22.129	1.00	49.79	6
ATOM	5931	CB	ARG	C	308	63.410	136.697	21.090	1.00	71.35	6
ATOM	5932	CG	ARG	C	308	62.901	138.065	21.532	1.00	73.99	6
ATOM	5933	CD	ARG	C	308	62.560	138.925	20.304	1.00	75.25	6
ATOM	5934	NE	ARG	C	308	61.647	138.249	19.382	1.00	75.78	7
ATOM	5935	CZ	ARG	C	308	61.333	138.696	18.169	1.00	75.70	6
ATOM	5936	NH1	ARG	C	308	61.855	139.825	17.713	1.00	75.04	7
ATOM	5937	NH2	ARG	C	308	60.493	138.011	17.408	1.00	76.65	7
ATOM	5938	C	ARG	C	308	63.260	135.391	23.240	1.00	48.91	6
ATOM	5939	O	ARG	C	308	63.627	135.416	24.420	1.00	48.85	8
ATOM	5940	N	TYR	C	309	62.074	134.923	22.841	1.00	59.73	7
ATOM	5941	CA	TYR	C	309	61.063	134.401	23.767	1.00	57.75	6
ATOM	5942	CB	TYR	C	309	59.986	133.625	22.997	1.00	46.74	6
ATOM	5943	CG	TYR	C	309	58.894	132.982	23.847	1.00	44.05	6
ATOM	5944	CD1	TYR	C	309	57.800	133.719	24.291	1.00	44.13	6
ATOM	5945	CE1	TYR	C	309	56.776	133.114	25.015	1.00	44.22	6
ATOM	5946	CD2	TYR	C	309	58.938	131.622	24.161	1.00	42.45	6
ATOM	5947	CE2	TYR	C	309	57.932	131.011	24.880	1.00	42.72	6
ATOM	5948	CZ	TYR	C	309	56.849	131.759	25.301	1.00	43.96	6
ATOM	5949	OH	TYR	C	309	55.813	131.147	25.968	1.00	44.56	8
ATOM	5950	C	TYR	C	309	61.698	133.487	24.805	1.00	56.45	6
ATOM	5951	O	TYR	C	309	61.065	133.123	25.785	1.00	55.94	8
ATOM	5952	N	LEU	C	310	62.943	133.095	24.585	1.00	18.61	7
ATOM	5953	CA	LEU	C	310	63.594	132.257	25.554	1.00	19.45	6
ATOM	5954	CB	LEU	C	310	64.806	131.545	24.969	1.00	22.17	6
ATOM	5955	CG	LEU	C	310	65.500	130.689	26.043	1.00	20.12	6
ATOM	5956	CD1	LEU	C	310	64.601	129.509	26.355	1.00	17.82	6
ATOM	5957	CD2	LEU	C	310	66.891	130.218	25.601	1.00	18.38	6
ATOM	5958	C	LEU	C	310	64.056	133.133	26.699	1.00	21.90	6
ATOM	5959	O	LEU	C	310	63.604	132.979	27.837	1.00	22.91	8
ATOM	5960	N	PHE	C	311	64.966	134.057	26.404	1.00	63.18	7
ATOM	5961	CA	PHE	C	311	65.502	134.952	27.430	1.00	64.52	6
ATOM	5962	CB	PHE	C	311	66.446	135.981	26.784	1.00	56.38	6
ATOM	5963	CG	PHE	C	311	67.695	135.373	26.181	1.00	56.52	6
ATOM	5964	CD1	PHE	C	311	68.669	136.180	25.608	1.00	56.80	6
ATOM	5965	CD2	PHE	C	311	67.897	133.998	26.186	1.00	56.67	6
ATOM	5966	CE1	PHE	C	311	69.825	135.631	25.049	1.00	56.17	6
ATOM	5967	CE2	PHE	C	311	69.046	133.446	25.630	1.00	56.99	6
ATOM	5968	CZ	PHE	C	311	70.011	134.268	25.060	1.00	56.37	6
ATOM	5969	C	PHE	C	311	64.378	135.643	28.208	1.00	65.71	6
ATOM	5970	O	PHE	C	311	64.494	135.889	29.408	1.00	65.06	8
ATOM	5971	N	ALA	C	312	63.287	135.938	27.509	1.00	109.29	7
ATOM	5972	CA	ALA	C	312	62.127	136.570	28.119	1.00	110.75	6
ATOM	5973	CB	ALA	C	312	61.064	136.820	27.067	1.00	51.75	6
ATOM	5974	C	ALA	C	312	61.599	135.606	29.167	1.00	111.67	6
ATOM	5975	O	ALA	C	312	60.890	135.989	30.093	1.00	112.90	8
ATOM	5976	N	LEU	C	313	61.958	134.342	28.993	1.00	56.14	7
ATOM	5977	CA	LEU	C	313	61.558	133.269	29.883	1.00	55.56	6
ATOM	5978	CB	LEU	C	313	61.211	132.031	29.054	1.00	15.69	6
ATOM	5979	CG	LEU	C	313	61.013	130.634	29.656	1.00	14.79	6
ATOM	5980	CD1	LEU	C	313	60.006	130.649	30.788	1.00	15.15	6
ATOM	5981	CD2	LEU	C	313	60.543	129.704	28.560	1.00	13.87	6
ATOM	5982	C	LEU	C	313	62.729	132.989	30.800	1.00	56.68	6
ATOM	5983	O	LEU	C	313	62.718	132.033	31.571	1.00	57.42	8

ATOM	5984	N	THR	C	314	63.750	133.833	30.717	1.00	59.39	7
ATOM	5985	CA	THR	C	314	64.920	133.656	31.559	1.00	61.60	6
ATOM	5986	CB	THR	C	314	66.096	133.099	30.733	1.00	48.58	6
ATOM	5987	OG1	THR	C	314	65.637	132.004	29.927	1.00	47.77	8
ATOM	5988	CG2	THR	C	314	67.196	132.590	31.656	1.00	48.80	6
ATOM	5989	C	THR	C	314	65.315	134.972	32.246	1.00	63.97	6
ATOM	5990	O	THR	C	314	66.455	135.439	32.132	1.00	63.96	8
ATOM	5991	N	ALA	C	315	64.339	135.543	32.958	1.00	73.83	7
ATOM	5992	CA	ALA	C	315	64.444	136.793	33.722	1.00	74.62	6
ATOM	5993	CB	ALA	C	315	65.837	137.419	33.583	1.00	65.98	6
ATOM	5994	C	ALA	C	315	63.372	137.792	33.284	1.00	75.31	6
ATOM	5995	O	ALA	C	315	63.142	138.798	33.951	1.00	75.44	8
ATOM	5996	N	GLY	C	316	62.704	137.502	32.171	1.00	61.65	7
ATOM	5997	CA	GLY	C	316	61.675	138.396	31.672	1.00	63.94	6
ATOM	5998	C	GLY	C	316	60.316	138.208	32.318	1.00	65.80	6
ATOM	5999	O	GLY	C	316	60.215	137.699	33.440	1.00	65.97	8
ATOM	6000	N	VAL	C	317	59.270	138.625	31.604	1.00	71.99	7
ATOM	6001	CA	VAL	C	317	57.897	138.515	32.094	1.00	73.19	6
ATOM	6002	CB	VAL	C	317	57.187	139.884	32.089	1.00	50.58	6
ATOM	6003	CG1	VAL	C	317	55.684	139.701	32.287	1.00	50.11	6
ATOM	6004	CG2	VAL	C	317	57.753	140.758	33.199	1.00	50.53	6
ATOM	6005	C	VAL	C	317	57.003	137.513	31.356	1.00	75.00	6
ATOM	6006	O	VAL	C	317	56.214	136.816	31.988	1.00	75.45	8
ATOM	6007	N	PRO	C	318	57.107	137.421	30.016	1.00	149.53	7
ATOM	6008	CD	PRO	C	318	58.077	138.026	29.086	1.00	68.35	6
ATOM	6009	CA	PRO	C	318	56.246	136.457	29.315	1.00	150.81	6
ATOM	6010	CB	PRO	C	318	56.628	136.657	27.849	1.00	68.99	6
ATOM	6011	CG	PRO	C	318	58.067	137.042	27.932	1.00	68.35	6
ATOM	6012	C	PRO	C	318	56.483	135.027	29.801	1.00	152.05	6
ATOM	6013	O	PRO	C	318	55.666	134.136	29.583	1.00	151.58	8
ATOM	6014	N	GLY	C	319	57.620	134.840	30.465	1.00	73.22	7
ATOM	6015	CA	GLY	C	319	58.015	133.559	31.023	1.00	74.96	6
ATOM	6016	C	GLY	C	319	57.383	132.312	30.452	1.00	76.68	6
ATOM	6017	O	GLY	C	319	57.790	131.826	29.400	1.00	76.07	8
ATOM	6018	N	HIS	C	320	56.382	131.794	31.152	1.00	84.00	7
ATOM	6019	CA	HIS	C	320	55.699	130.575	30.734	1.00	86.17	6
ATOM	6020	CB	HIS	C	320	54.877	130.812	29.460	1.00	158.67	6
ATOM	6021	CG	HIS	C	320	53.751	131.785	29.638	1.00	159.50	6
ATOM	6022	CD2	HIS	C	320	53.332	132.816	28.866	1.00	159.65	6
ATOM	6023	ND1	HIS	C	320	52.900	131.749	30.722	1.00	159.24	7
ATOM	6024	CE1	HIS	C	320	52.008	132.716	30.611	1.00	159.88	6
ATOM	6025	NE2	HIS	C	320	52.248	133.379	29.494	1.00	159.94	7
ATOM	6026	C	HIS	C	320	56.719	129.458	30.510	1.00	86.95	6
ATOM	6027	O	HIS	C	320	57.403	129.405	29.488	1.00	86.53	8
ATOM	6028	N	GLU	C	321	56.829	128.577	31.495	1.00	135.10	7
ATOM	6029	CA	GLU	C	321	57.757	127.466	31.414	1.00	136.56	6
ATOM	6030	CB	GLU	C	321	58.179	127.028	32.817	1.00	165.69	6
ATOM	6031	CG	GLU	C	321	58.904	128.108	33.613	1.00	167.45	6
ATOM	6032	CD	GLU	C	321	58.115	128.592	34.822	1.00	168.27	6
ATOM	6033	OE1	GLU	C	321	56.993	129.110	34.642	1.00	169.04	8
ATOM	6034	OE2	GLU	C	321	58.621	128.457	35.956	1.00	167.77	8
ATOM	6035	C	GLU	C	321	57.072	126.320	30.692	1.00	137.60	6
ATOM	6036	O	GLU	C	321	57.513	125.177	30.783	1.00	138.15	8
ATOM	6037	N	VAL	C	322	55.993	126.635	29.977	1.00	99.38	7
ATOM	6038	CA	VAL	C	322	55.236	125.628	29.233	1.00	100.56	6
ATOM	6039	CB	VAL	C	322	54.463	126.252	28.026	1.00	100.02	6

ATOM	6040	CG1	VAL	C	322	55.386	127.099	27.186	1.00100.63	6
ATOM	6041	CG2	VAL	C	322	53.849	125.155	27.168	1.00 99.26	6
ATOM	6042	C	VAL	C	322	56.139	124.512	28.726	1.00101.41	6
ATOM	6043	O	VAL	C	322	57.015	124.730	27.890	1.00101.84	8
ATOM	6044	N	ALA	C	323	55.922	123.317	29.260	1.00115.83	7
ATOM	6045	CA	ALA	C	323	56.704	122.151	28.881	1.00116.94	6
ATOM	6046	CB	ALA	C	323	57.288	121.498	30.132	1.00101.48	6
ATOM	6047	C	ALA	C	323	55.798	121.169	28.143	1.00117.29	6
ATOM	6048	O	ALA	C	323	54.783	121.571	27.572	1.00117.57	8
ATOM	6049	N	ASP	C	324	56.164	119.890	28.133	1.00 90.38	7
ATOM	6050	CA	ASP	C	324	55.321	118.898	27.498	1.00 90.03	6
ATOM	6051	CB	ASP	C	324	56.020	117.535	27.468	1.00208.87	6
ATOM	6052	CG	ASP	C	324	56.492	117.085	28.837	1.00208.87	6
ATOM	6053	OD1	ASP	C	324	57.291	117.813	29.465	1.00208.87	8
ATOM	6054	OD2	ASP	C	324	56.065	115.997	29.279	1.00208.87	8
ATOM	6055	C	ASP	C	324	54.108	118.875	28.414	1.00 88.37	6
ATOM	6056	O	ASP	C	324	53.586	117.822	28.765	1.00 87.10	8
ATOM	6057	N	ALA	C	325	53.698	120.081	28.799	1.00129.49	7
ATOM	6058	CA	ALA	C	325	52.588	120.367	29.689	1.00128.97	6
ATOM	6059	CB	ALA	C	325	52.037	121.746	29.362	1.00 37.90	6
ATOM	6060	C	ALA	C	325	51.474	119.329	29.703	1.00128.58	6
ATOM	6061	O	ALA	C	325	50.558	119.403	30.520	1.00129.16	8
ATOM	6062	N	ASP	C	326	51.550	118.364	28.798	1.00 84.98	7
ATOM	6063	CA	ASP	C	326	50.574	117.296	28.732	1.00 83.82	6
ATOM	6064	CB	ASP	C	326	50.641	116.453	30.004	1.00 99.04	6
ATOM	6065	CG	ASP	C	326	52.050	115.992	30.321	1.00 99.14	6
ATOM	6066	OD1	ASP	C	326	52.692	115.374	29.444	1.00 98.26	8
ATOM	6067	OD2	ASP	C	326	52.516	116.244	31.451	1.00 99.68	8
ATOM	6068	C	ASP	C	326	49.179	117.850	28.542	1.00 82.28	6
ATOM	6069	O	ASP	C	326	48.217	117.099	28.405	1.00 83.20	8
ATOM	6070	N	HIS	C	327	49.065	119.170	28.552	1.00131.67	7
ATOM	6071	CA	HIS	C	327	47.772	119.780	28.340	1.00129.72	6
ATOM	6072	CB	HIS	C	327	47.902	121.302	28.263	1.00 67.84	6
ATOM	6073	CG	HIS	C	327	46.595	122.014	28.079	1.00 66.29	6
ATOM	6074	CD2	HIS	C	327	46.013	122.538	26.974	1.00 66.15	6
ATOM	6075	ND1	HIS	C	327	45.706	122.222	29.111	1.00 65.92	7
ATOM	6076	CE1	HIS	C	327	44.633	122.839	28.651	1.00 66.32	6
ATOM	6077	NE2	HIS	C	327	44.794	123.043	27.357	1.00 66.58	7
ATOM	6078	C	HIS	C	327	47.406	119.229	26.978	1.00127.76	6
ATOM	6079	O	HIS	C	327	48.203	119.330	26.050	1.00127.72	8
ATOM	6080	N	LEU	C	328	46.235	118.614	26.850	1.00 89.73	7
ATOM	6081	CA	LEU	C	328					

ATOM	6096	OD1	ASN	C	330	50.329	122.468	23.460	1.00	37.44	8
ATOM	6097	ND2	ASN	C	330	51.167	122.065	25.508	1.00	37.85	7
ATOM	6098	C	ASN	C	330	49.995	118.190	22.841	1.00	63.95	6
ATOM	6099	O	ASN	C	330	51.087	117.680	22.605	1.00	65.25	8
ATOM	6100	N	ARG	C	331	48.879	117.476	22.977	1.00	31.86	7
ATOM	6101	CA	ARG	C	331	48.865	116.024	22.846	1.00	28.53	6
ATOM	6102	CB	ARG	C	331	48.153	115.381	24.030	1.00	42.69	6
ATOM	6103	CG	ARG	C	331	49.024	115.241	25.250	1.00	42.49	6
ATOM	6104	CD	ARG	C	331	49.702	113.896	25.297	1.00	41.46	6
ATOM	6105	NE	ARG	C	331	50.969	113.996	26.005	1.00	41.16	7
ATOM	6106	CZ	ARG	C	331	51.525	113.016	26.714	1.00	41.94	6
ATOM	6107	NH1	ARG	C	331	50.928	111.829	26.831	1.00	41.98	7
ATOM	6108	NH2	ARG	C	331	52.689	113.234	27.317	1.00	42.25	7
ATOM	6109	C	ARG	C	331	48.168	115.619	21.579	1.00	27.55	6
ATOM	6110	O	ARG	C	331	46.963	115.441	21.547	1.00	26.44	8
ATOM	6111	N	ARG	C	332	48.952	115.471	20.530	1.00	63.72	7
ATOM	6112	CA	ARG	C	332	48.440	115.079	19.235	1.00	63.94	6
ATOM	6113	CB	ARG	C	332	49.574	115.223	18.210	1.00	73.34	6
ATOM	6114	CG	ARG	C	332	49.251	114.856	16.779	1.00	75.34	6
ATOM	6115	CD	ARG	C	332	48.450	115.921	16.106	1.00	78.35	6
ATOM	6116	NE	ARG	C	332	48.485	115.736	14.666	1.00	83.95	7
ATOM	6117	CZ	ARG	C	332	47.961	116.591	13.796	1.00	87.69	6
ATOM	6118	NH1	ARG	C	332	47.355	117.694	14.222	1.00	88.64	7
ATOM	6119	NH2	ARG	C	332	48.058	116.352	12.494	1.00	90.07	7
ATOM	6120	C	ARG	C	332	47.948	113.628	19.296	1.00	62.87	6
ATOM	6121	O	ARG	C	332	48.369	112.851	20.157	1.00	61.84	8
ATOM	6122	N	ILE	C	333	47.040	113.279	18.386	1.00	62.90	7
ATOM	6123	CA	ILE	C	333	46.515	111.922	18.289	1.00	60.22	6
ATOM	6124	CB	ILE	C	333	45.088	111.824	18.812	1.00	18.02	6
ATOM	6125	CG2	ILE	C	333	44.509	110.467	18.476	1.00	16.60	6
ATOM	6126	CG1	ILE	C	333	45.096	112.057	20.326	1.00	18.58	6
ATOM	6127	CD1	ILE	C	333	43.788	111.693	21.050	1.00	20.84	6
ATOM	6128	C	ILE	C	333	46.541	111.423	16.848	1.00	60.00	6
ATOM	6129	O	ILE	C	333	45.592	111.616	16.089	1.00	60.88	8
ATOM	6130	N	ARG	C	334	47.645	110.788	16.476	1.00	40.82	7
ATOM	6131	CA	ARG	C	334	47.804	110.249	15.140	1.00	39.79	6
ATOM	6132	CB	ARG	C	334	49.236	109.762	14.940	1.00	48.95	6
ATOM	6133	CG	ARG	C	334	50.248	110.869	14.856	1.00	50.53	6
ATOM	6134	CD	ARG	C	334	51.576	110.327	14.389	1.00	53.11	6
ATOM	6135	NE	ARG	C	334	52.108	109.330	15.310	1.00	55.57	7
ATOM	6136	CZ	ARG	C	334	53.243	108.669	15.104	1.00	58.22	6
ATOM	6137	NH1	ARG	C	334	53.954	108.905	14.007	1.00	59.53	7
ATOM	6138	NH2	ARG	C	334	53.676	107.776	15.986	1.00	59.09	7
ATOM	6139	C	ARG	C	334	46.833	109.104	14.857	1.00	38.72	6
ATOM	6140	O	ARG	C	334	47.088	107.950	15.206	1.00	38.77	8
ATOM	6141	N	THR	C	335	45.719	109.436	14.220	1.00	27.72	7
ATOM	6142	CA	THR	C	335	44.711	108.451	13.858	1.00	26.86	6
ATOM	6143	CB	THR	C	335	43.524	109.147	13.142	1.00	52.92	6
ATOM	6144	OG1	THR	C	335	43.737	110.568	13.137	1.00	52.44	8
ATOM	6145	CG2	THR	C	335	42.214	108.858	13.862	1.00	53.20	6
ATOM	6146	C	THR	C	335	45.374	107.445	12.909	1.00	26.26	6
ATOM	6147	O	THR	C	335	46.487	107.680	12.439	1.00	26.38	8
ATOM	6148	N	VAL	C	336	44.708	106.328	12.625	1.00	19.30	7
ATOM	6149	CA	VAL	C	336	45.295	105.333	11.724	1.00	19.05	6
ATOM	6150	CB	VAL	C	336	44.296	104.234	11.295	1.00	19.08	6
ATOM	6151	CG1	VAL	C	336	45.051	103.070	10.675	1.00	17.32	6

ATOM	6152	CG2	VAL	C	336	43.466	103.781	12.471	1.00	21.04	6
ATOM	6153	C	VAL	C	336	45.732	106.037	10.454	1.00	19.76	6
ATOM	6154	O	VAL	C	336	46.918	106.156	10.190	1.00	19.67	8
ATOM	6155	N	GLY	C	337	44.758	106.511	9.681	1.00	39.74	7
ATOM	6156	CA	GLY	C	337	45.048	107.181	8.424	1.00	41.07	6
ATOM	6157	C	GLY	C	337	46.305	108.021	8.456	1.00	41.88	6
ATOM	6158	O	GLY	C	337	46.993	108.169	7.441	1.00	41.06	8
ATOM	6159	N	GLU	C	338	46.589	108.580	9.629	1.00	53.46	7
ATOM	6160	CA	GLU	C	338	47.764	109.408	9.828	1.00	55.83	6
ATOM	6161	CB	GLU	C	338	47.595	110.228	11.117	1.00	55.93	6
ATOM	6162	CG	GLU	C	338	48.522	111.446	11.269	1.00	57.68	6
ATOM	6163	CD	GLU	C	338	48.070	112.416	12.375	1.00	59.12	6
ATOM	6164	OE1	GLU	C	338	48.862	113.313	12.738	1.00	59.71	8
ATOM	6165	OE2	GLU	C	338	46.927	112.293	12.877	1.00	58.33	8
ATOM	6166	C	GLU	C	338	48.970	108.466	9.901	1.00	56.52	6
ATOM	6167	O	GLU	C	338	49.940	108.642	9.164	1.00	57.30	8
ATOM	6168	N	LEU	C	339	48.896	107.456	10.768	1.00	46.17	7
ATOM	6169	CA	LEU	C	339	49.972	106.470	10.919	1.00	45.76	6
ATOM	6170	CB	LEU	C	339	49.568	105.398	11.912	1.00	29.77	6
ATOM	6171	CG	LEU	C	339	49.259	105.826	13.334	1.00	28.34	6
ATOM	6172	CD1	LEU	C	339	48.193	104.901	13.876	1.00	27.80	6
ATOM	6173	CD2	LEU	C	339	50.520	105.804	14.183	1.00	26.92	6
ATOM	6174	C	LEU	C	339	50.247	105.785	9.593	1.00	46.77	6
ATOM	6175	O	LEU	C	339	51.394	105.660	9.172	1.00	47.55	8
ATOM	6176	N	MET	C	340	49.170	105.319	8.966	1.00	40.41	7
ATOM	6177	CA	MET	C	340	49.213	104.642	7.675	1.00	41.73	6
ATOM	6178	CB	MET	C	340	47.815	104.102	7.357	1.00	33.54	6
ATOM	6179	CG	MET	C	340	47.726	103.281	6.098	1.00	34.95	6
ATOM	6180	SD	MET	C	340	47.982	104.255	4.606	1.00	37.58	16
ATOM	6181	CE	MET	C	340	46.303	104.575	4.124	1.00	37.44	6
ATOM	6182	C	MET	C	340	49.685	105.624	6.585	1.00	42.70	6
ATOM	6183	O	MET	C	340	50.313	105.237	5.590	1.00	41.52	8
ATOM	6184	N	ALA	C	341	49.379	106.902	6.782	1.00	58.39	7
ATOM	6185	CA	ALA	C	341	49.783	107.922	5.832	1.00	59.26	6
ATOM	6186	CB	ALA	C	341	49.214	109.275	6.234	1.00	54.63	6
ATOM	6187	C	ALA	C	341	51.302	107.975	5.808	1.00	59.78	6
ATOM	6188	O	ALA	C	341	51.918	107.600	4.819	1.00	60.61	8
ATOM	6189	N	ASP	C	342	51.903	108.425	6.905	1.00	54.65	7
ATOM	6190	CA	ASP	C	342	53.360	108.530	7.002	1.00	55.34	6
ATOM	6191	CB	ASP	C	342	53.785	108.750	8.459	1.00	64.26	6
ATOM	6192	CG	ASP	C	342	53.416	110.124	8.978	1.00	65.24	6
ATOM	6193	OD1	ASP	C	342	53.659	111.125	8.266	1.00	66.05	8
ATOM	6194	OD2	ASP	C	342	52.896	110.201	10.112	1.00	65.46	8
ATOM	6195	C	ASP	C	342	54.121	107.320	6.447	1.00	55.56	6
ATOM	6196	O	ASP	C	342	55.191	107.467	5.850	1.00	54.83	8
ATOM	6197	N	GLN	C	343	53.573	106.128	6.656	1.00	49.93	7
ATOM	6198	CA	GLN	C	343	54.217	104.916	6.183	1.00	49.77	6
ATOM	6199	CB	GLN	C	343	53.488	103.694	6.731	1.00	55.92	6
ATOM	6200	CG	GLN	C	343	54.392	102.489	6.863	1.00	56.26	6
ATOM	6201	CD	GLN	C	343	55.600	102.773	7.735	1.00	55.71	6
ATOM	6202	OE1	GLN	C	343	55.526	102.743	8.965	1.00	54.57	8
ATOM	6203	NE2	GLN	C	343	56.722	103.072	7.094	1.00	55.01	7
ATOM	6204	C	GLN	C	343	54.201	104.903	4.663	1.00	50.19	6
ATOM	6205	O	GLN	C	343	55.062	104.299	4.019	1.00	50.28	8
ATOM	6206	N	PHE	C	344	53.201	105.575	4.102	1.00	68.25	7
ATOM	6207	CA	PHE	C	344	53.042	105.695	2.657	1.00	68.99	6

ATOM	6208	CB	PHE	C	344	51.628	106.199	2.331	1.00	53.22	6
ATOM	6209	CG	PHE	C	344	51.092	105.758	0.986	1.00	52.79	6
ATOM	6210	CD1	PHE	C	344	49.781	106.061	0.620	1.00	53.28	6
ATOM	6211	CD2	PHE	C	344	51.870	105.031	0.106	1.00	52.38	6
ATOM	6212	CE1	PHE	C	344	49.257	105.648	-0.589	1.00	53.18	6
ATOM	6213	CE2	PHE	C	344	51.350	104.614	-1.107	1.00	52.97	6
ATOM	6214	CZ	PHE	C	344	50.039	104.925	-1.452	1.00	53.08	6
ATOM	6215	C	PHE	C	344	54.088	106.735	2.263	1.00	69.69	6
ATOM	6216	O	PHE	C	344	54.635	106.701	1.165	1.00	70.88	8
ATOM	6217	N	ARG	C	345	54.359	107.663	3.177	1.00	46.04	7
ATOM	6218	CA	ARG	C	345	55.365	108.684	2.937	1.00	46.35	6
ATOM	6219	CB	ARG	C	345	55.367	109.716	4.068	1.00	60.38	6
ATOM	6220	CG	ARG	C	345	54.080	110.523	4.148	1.00	61.90	6
ATOM	6221	CD	ARG	C	345	54.147	111.609	5.213	1.00	62.12	6
ATOM	6222	NE	ARG	C	345	52.979	112.495	5.186	1.00	61.97	7
ATOM	6223	CZ	ARG	C	345	51.801	112.224	5.747	1.00	61.97	6
ATOM	6224	NH1	ARG	C	345	51.617	111.081	6.396	1.00	61.31	7
ATOM	6225	NH2	ARG	C	345	50.800	113.096	5.656	1.00	62.32	7
ATOM	6226	C	ARG	C	345	56.701	107.954	2.879	1.00	46.29	6
ATOM	6227	O	ARG	C	345	57.502	108.172	1.974	1.00	45.82	8
ATOM	6228	N	VAL	C	346	56.917	107.059	3.837	1.00	59.02	7
ATOM	6229	CA	VAL	C	346	58.148	106.272	3.909	1.00	59.39	6
ATOM	6230	CB	VAL	C	346	58.072	105.227	5.042	1.00	106.13	6
ATOM	6231	CG1	VAL	C	346	59.400	104.491	5.167	1.00	106.98	6
ATOM	6232	CG2	VAL	C	346	57.705	105.908	6.348	1.00	106.03	6
ATOM	6233	C	VAL	C	346	58.418	105.533	2.603	1.00	59.04	6
ATOM	6234	O	VAL	C	346	59.521	105.588	2.059	1.00	58.47	8
ATOM	6235	N	GLY	C	347	57.402	104.830	2.113	1.00	36.64	7
ATOM	6236	CA	GLY	C	347	57.550	104.086	0.880	1.00	38.67	6
ATOM	6237	C	GLY	C	347	58.151	104.955	-0.197	1.00	40.04	6
ATOM	6238	O	GLY	C	347	59.142	104.591	-0.818	1.00	38.54	8
ATOM	6239	N	LEU	C	348	57.550	106.116	-0.410	1.00	81.14	7
ATOM	6240	CA	LEU	C	348	58.032	107.041	-1.415	1.00	83.72	6
ATOM	6241	CB	LEU	C	348	57.045	108.198	-1.557	1.00	23.40	6
ATOM	6242	CG	LEU	C	348	55.937	107.959	-2.591	1.00	21.23	6
ATOM	6243	CD1	LEU	C	348	55.523	106.507	-2.605	1.00	21.40	6
ATOM	6244	CD2	LEU	C	348	54.750	108.847	-2.277	1.00	20.29	6
ATOM	6245	C	LEU	C	348	59.430	107.551	-1.088	1.00	87.02	6
ATOM	6246	O	LEU	C	348	60.176	107.943	-1.982	1.00	87.49	8
ATOM	6247	N	ALA	C	349	59.794	107.536	0.190	1.00	205.10	7
ATOM	6248	CA	ALA	C	349	61.122	107.987	0.597	1.00	208.87	6
ATOM	6249	CB	ALA	C	349	61.181	108.163	2.107	1.00	160.69	6
ATOM	6250	C	ALA	C	349	62.125	106.933	0.157	1.00	208.87	6
ATOM	6251	O	ALA	C	349	63.265	106.903	0.622	1.00	208.87	8
ATOM	6252	N	ARG	C	350	61.680	106.069	-0.751	1.00	62.51	7
ATOM	6253	CA	ARG	C	350	62.495	104.983	-1.264	1.00	63.53	6
ATOM	6254	CB	ARG	C	350	62.248	103.770	-0.392	1.00	74.24	6
ATOM	6255	CG	ARG	C	350	62.658	104.075	1.026	1.00	75.44	6
ATOM	6256	CD	ARG	C	350	61.948	103.257	2.077	1.00	75.95	6
ATOM	6257	NE	ARG	C	350	62.617	103.445	3.360	1.00	76.40	7
ATOM	6258	CZ	ARG	C	350	62.274	102.835	4.485	1.00	77.84	6
ATOM	6259	NH1	ARG	C	350	61.251	101.987	4.500	1.00	78.67	7
ATOM	6260	NH2	ARG	C	350	62.971	103.061	5.589	1.00	79.33	7
ATOM	6261	C	ARG	C	350	62.158	104.712	-2.727	1.00	64.82	6
ATOM	6262	O	ARG	C	350	63.020	104.347	-3.525	1.00	65.28	8
ATOM	6263	N	LEU	C	351	60.891	104.890	-3.072	1.00	63.44	7

ATOM	6264	CA	LEU	C	351	60.462	104.716	-4.444	1.00	64.60	6
ATOM	6265	CB	LEU	C	351	59.025	105.189	-4.612	1.00	69.32	6
ATOM	6266	CG	LEU	C	351	58.740	105.890	-5.937	1.00	69.81	6
ATOM	6267	CD1	LEU	C	351	58.831	104.902	-7.077	1.00	70.58	6
ATOM	6268	CD2	LEU	C	351	57.374	106.517	-5.887	1.00	69.70	6
ATOM	6269	C	LEU	C	351	61.379	105.643	-5.196	1.00	65.69	6
ATOM	6270	O	LEU	C	351	62.157	105.214	-6.032	1.00	66.02	8
ATOM	6271	N	ALA	C	352	61.290	106.924	-4.856	1.00	97.21	7
ATOM	6272	CA	ALA	C	352	62.096	107.968	-5.477	1.00	98.34	6
ATOM	6273	CB	ALA	C	352	61.961	109.260	-4.693	1.00	107.71	6
ATOM	6274	C	ALA	C	352	63.566	107.581	-5.598	1.00	98.88	6
ATOM	6275	O	ALA	C	352	64.119	107.579	-6.698	1.00	99.53	8
ATOM	6276	N	ARG	C	353	64.208	107.271	-4.473	1.00	45.94	7
ATOM	6277	CA	ARG	C	353	65.609	106.871	-4.514	1.00	47.38	6
ATOM	6278	CB	ARG	C	353	65.973	106.085	-3.254	1.00	115.76	6
ATOM	6279	CG	ARG	C	353	65.775	106.841	-1.955	1.00	117.15	6
ATOM	6280	CD	ARG	C	353	66.825	107.914	-1.782	1.00	118.82	6
ATOM	6281	NE	ARG	C	353	66.625	108.662	-0.546	1.00	120.11	7
ATOM	6282	CZ	ARG	C	353	67.444	109.613	-0.108	1.00	121.05	6
ATOM	6283	NH1	ARG	C	353	68.529	109.935	-0.805	1.00	120.67	7
ATOM	6284	NH2	ARG	C	353	67.177	110.245	1.028	1.00	121.41	7
ATOM	6285	C	ARG	C	353	65.763	105.972	-5.742	1.00	48.30	6
ATOM	6286	O	ARG	C	353	66.610	106.199	-6.605	1.00	49.16	8
ATOM	6287	N	GLY	C	354	64.908	104.959	-5.820	1.00	160.51	7
ATOM	6288	CA	GLY	C	354	64.955	104.049	-6.944	1.00	160.56	6
ATOM	6289	C	GLY	C	354	64.848	104.787	-8.263	1.00	160.66	6
ATOM	6290	O	GLY	C	354	65.679	104.601	-9.152	1.00	161.53	8
ATOM	6291	N	VAL	C	355	63.835	105.638	-8.395	1.00	80.66	7
ATOM	6292	CA	VAL	C	355	63.653	106.371	-9.633	1.00	80.30	6
ATOM	6293	CB	VAL	C	355	62.332	107.204	-9.622	1.00	45.69	6
ATOM	6294	CG1	VAL	C	355	62.416	108.360	-8.651	1.00	45.97	6
ATOM	6295	CG2	VAL	C	355	62.024	107.704	-11.027	1.00	45.21	6
ATOM	6296	C	VAL	C	355	64.861	107.258	-9.939	1.00	80.64	6
ATOM	6297	O	VAL	C	355	65.468	107.114	-10.998	1.00	81.25	8
ATOM	6298	N	ARG	C	356	65.226	108.152	-9.022	1.00	80.64	7
ATOM	6299	CA	ARG	C	356	66.383	109.022	-9.238	1.00	80.31	6
ATOM	6300	CB	ARG	C	356	66.842	109.659	-7.923	1.00	101.69	6
ATOM	6301	CG	ARG	C	356	68.368	109.649	-7.714	1.00	101.76	6
ATOM	6302	CD	ARG	C	356	69.130	110.592	-8.662	1.00	102.00	6
ATOM	6303	NE	ARG	C	356	70.579	110.374	-8.601	1.00	101.48	7
ATOM	6304	CZ	ARG	C	356	71.496	111.201	-9.105	1.00	101.01	6
ATOM	6305	NH1	ARG	C	356	71.127	112.321	-9.715	1.00	100.84	7
ATOM	6306	NH2	ARG	C	356	72.787	110.906	-8.997	1.00	101.02	7
ATOM	6307	C	ARG	C	356	67.522	108.191	-9.800	1.00	80.38	6
ATOM	6308	O	ARG	C	356	68.235	108.631	-10.702	1.00	79.87	8
ATOM	6309	N	GLU	C	357	67.685	106.993	-9.241	1.00	70.79	7
ATOM	6310	CA	GLU	C	357	68.723	106.060	-9.654	1.00	71.20	6
ATOM	6311	CB	GLU	C	357	68.626	104.772	-8.836	1.00	197.19	6
ATOM	6312	CG	GLU	C	357	69.548	103.661	-9.312	1.00	199.52	6
ATOM	6313	CD	GLU	C	357	71.008	103.958	-9.048	1.00	200.44	6
ATOM	6314	OE1	GLU	C	357	71.479	105.043	-9.451	1.00	202.08	8
ATOM	6315	OE2	GLU	C	357	71.687	103.101	-8.441	1.00	200.31	8
ATOM	6316	C	GLU	C	357	68.588	105.724	-11.128	1.00	70.90	6
ATOM	6317	O	GLU	C	357	69.535	105.887	-11.891	1.00	70.88	8
ATOM	6318	N	ARG	C	358	67.405	105.257	-11.521	1.00	98.92	7
ATOM	6319	CA	ARG	C	358	67.143	104.884	-12.911	1.00	99.88	6

ATOM	6320	CB	ARG	C	358	65.758	104.240	-13.040	1.00	90.72	6
ATOM	6321	CG	ARG	C	358	65.413	103.224	-11.957	1.00	90.05	6
ATOM	6322	CD	ARG	C	358	66.334	102.006	-11.935	1.00	88.23	6
ATOM	6323	NE	ARG	C	358	65.958	101.101	-10.849	1.00	86.36	7
ATOM	6324	CZ	ARG	C	358	66.613	99.992	-10.520	1.00	85.41	6
ATOM	6325	NH1	ARG	C	358	67.696	99.623	-11.189	1.00	84.88	7
ATOM	6326	NH2	ARG	C	358	66.181	99.250	-9.513	1.00	85.19	7
ATOM	6327	C	ARG	C	358	67.229	106.086	-13.855	1.00	101.13	6
ATOM	6328	O	ARG	C	358	67.926	106.033	-14.871	1.00	101.33	8
ATOM	6329	N	MET	C	359	66.508	107.155	-13.521	1.00	78.58	7
ATOM	6330	CA	MET	C	359	66.510	108.377	-14.326	1.00	80.42	6
ATOM	6331	CB	MET	C	359	66.186	109.607	-13.457	1.00	98.08	6
ATOM	6332	CG	MET	C	359	64.756	109.687	-12.898	1.00	100.34	6
ATOM	6333	SD	MET	C	359	63.524	110.434	-14.000	1.00	101.54	16
ATOM	6334	CE	MET	C	359	63.522	112.080	-13.421	1.00	101.52	6
ATOM	6335	C	MET	C	359	67.886	108.561	-14.951	1.00	81.29	6
ATOM	6336	O	MET	C	359	68.002	108.834	-16.141	1.00	81.42	8
ATOM	6337	N	VAL	C	360	68.926	108.397	-14.138	1.00	137.54	7
ATOM	6338	CA	VAL	C	360	70.300	108.547	-14.600	1.00	139.21	6
ATOM	6339	CB	VAL	C	360	71.267	108.621	-13.408	1.00	61.42	6
ATOM	6340	CG1	VAL	C	360	72.711	108.678	-13.883	1.00	61.29	6
ATOM	6341	CG2	VAL	C	360	70.942	109.837	-12.591	1.00	61.94	6
ATOM	6342	C	VAL	C	360	70.726	107.419	-15.527	1.00	140.74	6
ATOM	6343	O	VAL	C	360	70.462	107.475	-16.725	1.00	141.23	8
ATOM	6344	N	MET	C	361	71.380	106.402	-14.968	1.00	105.12	7
ATOM	6345	CA	MET	C	361	71.857	105.263	-15.743	1.00	106.42	6
ATOM	6346	CB	MET	C	361	71.439	103.927	-15.114	1.00	110.40	6
ATOM	6347	CG	MET	C	361	71.938	103.629	-13.716	1.00	112.79	6
ATOM	6348	SD	MET	C	361	71.479	101.941	-13.236	1.00	113.05	16
ATOM	6349	CE	MET	C	361	69.714	102.024	-13.313	1.00	113.30	6
ATOM	6350	C	MET	C	361	71.259	105.295	-17.128	1.00	106.56	6
ATOM	6351	O	MET	C	361	71.868	105.790	-18.076	1.00	107.71	8
ATOM	6352	N	GLY	C	362	70.036	104.776	-17.205	1.00	77.49	7
ATOM	6353	CA	GLY	C	362	69.305	104.676	-18.453	1.00	77.57	6
ATOM	6354	C	GLY	C	362	69.388	105.847	-19.402	1.00	77.61	6
ATOM	6355	O	GLY	C	362	69.930	106.897	-19.070	1.00	78.30	8
ATOM	6356	N	SER	C	363	68.842	105.650	-20.597	1.00	117.73	7
ATOM	6357	CA	SER	C	363	68.822	106.685	-21.620	1.00	118.18	6
ATOM	6358	CB	SER	C	363	68.919	106.057	-23.015	1.00	165.58	6
ATOM	6359	OG	SER	C	363	68.963	107.047	-24.028	1.00	165.87	8
ATOM	6360	C	SER	C	363	67.511	107.450	-21.487	1.00	118.23	6
ATOM	6361	O	SER	C	363	66.501	106.897	-21.058	1.00	118.26	8
ATOM	6362	N	PRO	C	364	67.511	108.735	-21.861	1.00	137.80	7
ATOM	6363	CD	PRO	C	364	68.608	109.457	-22.525	1.00	159.94	6
ATOM	6364	CA	PRO	C	364	66.316	109.575	-21.780	1.00	137.10	6
ATOM	6365	CB	PRO	C	364	66.791	110.902	-22.367	1.00	160.15	6
ATOM	6366	CG	PRO	C	364	67.859	110.479	-23.332	1.00	160.69	6
ATOM	6367	C	PRO	C	364	65.081	109.033	-22.499	1.00	136.05	6
ATOM	6368	O	PRO	C	364	63.962	109.211	-22.013	1.00	136.06	8
ATOM	6369	N	ASP	C	365	65.275	108.375	-23.643	1.00	91.02	7
ATOM	6370	CA	ASP	C	365	64.146	107.837	-24.415	1.00	89.06	6
ATOM	6371	CB	ASP	C	365	64.462	107.865	-25.918	1.00	162.10	6
ATOM	6372	CG	ASP	C	365	63.205	107.890	-26.783	1.00	163.67	6
ATOM	6373	OD1	ASP	C	365	62.364	106.980	-26.647	1.00	165.13	8
ATOM	6374	OD2	ASP	C	365	63.058	108.823	-27.601	1.00	164.24	8
ATOM	6375	C	ASP	C	365	63.768	106.416	-23.994	1.00	87.01	6



ATOM	6376	O	ASP	C	365	62.605	106.016	-24.084	1.00	86.49	8
ATOM	6377	N	THR	C	366	64.753	105.655	-23.535	1.00	177.30	7
ATOM	6378	CA	THR	C	366	64.495	104.298	-23.090	1.00	175.40	6
ATOM	6379	CB	THR	C	366	65.800	103.518	-22.886	1.00	130.83	6
ATOM	6380	OG1	THR	C	366	66.573	103.560	-24.091	1.00	131.14	8
ATOM	6381	CG2	THR	C	366	65.504	102.069	-22.527	1.00	131.24	6
ATOM	6382	C	THR	C	366	63.766	104.385	-21.759	1.00	173.92	6
ATOM	6383	O	THR	C	366	63.205	103.402	-21.282	1.00	175.00	8
ATOM	6384	N	LEU	C	367	63.773	105.578	-21.170	1.00	79.11	7
ATOM	6385	CA	LEU	C	367	63.127	105.812	-19.884	1.00	75.66	6
ATOM	6386	CB	LEU	C	367	63.909	106.844	-19.080	1.00	69.38	6
ATOM	6387	CG	LEU	C	367	65.295	106.413	-18.623	1.00	68.94	6
ATOM	6388	CD1	LEU	C	367	65.850	107.463	-17.690	1.00	68.92	6
ATOM	6389	CD2	LEU	C	367	65.214	105.068	-17.918	1.00	69.19	6
ATOM	6390	C	LEU	C	367	61.692	106.281	-19.989	1.00	73.59	6
ATOM	6391	O	LEU	C	367	61.388	107.221	-20.713	1.00	73.53	8
ATOM	6392	N	THR	C	368	60.813	105.620	-19.249	1.00	96.65	7
ATOM	6393	CA	THR	C	368	59.402	105.973	-19.224	1.00	94.95	6
ATOM	6394	CB	THR	C	368	58.624	105.319	-20.382	1.00	107.98	6
ATOM	6395	OG1	THR	C	368	58.611	103.899	-20.207	1.00	107.29	8
ATOM	6396	CG2	THR	C	368	59.261	105.655	-21.717	1.00	108.58	6
ATOM	6397	C	THR	C	368	58.837	105.450	-17.910	1.00	93.31	6
ATOM	6398	O	THR	C	368	59.460	104.619	-17.245	1.00	94.32	8
ATOM	6399	N	PRO	C	369	57.655	105.935	-17.508	1.00	69.12	7
ATOM	6400	CD	PRO	C	369	56.695	106.779	-18.229	1.00	28.46	6
ATOM	6401	CA	PRO	C	369	57.075	105.451	-16.255	1.00	67.49	6
ATOM	6402	CB	PRO	C	369	55.753	106.202	-16.178	1.00	28.00	6
ATOM	6403	CG	PRO	C	369	55.401	106.382	-17.583	1.00	27.23	6
ATOM	6404	C	PRO	C	369	56.882	103.953	-16.385	1.00	66.12	6
ATOM	6405	O	PRO	C	369	57.017	103.401	-17.476	1.00	66.14	8
ATOM	6406	N	ALA	C	370	56.564	103.292	-15.283	1.00	93.49	7
ATOM	6407	CA	ALA	C	370	56.382	101.851	-15.314	1.00	91.62	6
ATOM	6408	CB	ALA	C	370	55.515	101.446	-16.497	1.00	18.84	6
ATOM	6409	C	ALA	C	370	57.754	101.223	-15.444	1.00	90.43	6
ATOM	6410	O	ALA	C	370	57.928	100.042	-15.154	1.00	89.81	8
ATOM	6411	N	LYS	C	371	58.729	102.023	-15.874	1.00	47.06	7
ATOM	6412	CA	LYS	C	371	60.089	101.532	-16.046	1.00	46.49	6
ATOM	6413	CB	LYS	C	371	60.581	101.857	-17.458	1.00	103.72	6
ATOM	6414	CG	LYS	C	371	59.697	101.217	-18.521	1.00	104.63	6
ATOM	6415	CD	LYS	C	371	60.192	101.434	-19.935	1.00	104.61	6
ATOM	6416	CE	LYS	C	371	59.220	100.810	-20.932	1.00	105.32	6
ATOM	6417	NZ	LYS	C	371	57.824	101.341	-20.797	1.00	103.82	7
ATOM	6418	C	LYS	C	371	61.057	102.057	-14.995	1.00	45.54	6
ATOM	6419	O	LYS	C	371	61.917	101.306	-14.512	1.00	44.46	8
ATOM	6420	N	LEU	C	372	60.909	103.338	-14.645	1.00	69.08	7
ATOM	6421	CA	LEU	C	372	61.749	103.989	-13.624	1.00	68.75	6
ATOM	6422	CB	LEU	C	372	61.683	105.522	-13.739	1.00	76.05	6
ATOM	6423	CG	LEU	C	372	62.355	106.304	-14.874	1.00	75.32	6
ATOM	6424	CD1	LEU	C	372	61.856	107.738	-14.834	1.00	74.70	6
ATOM	6425	CD2	LEU	C	372	63.874	106.257	-14.740	1.00	76.45	6
ATOM	6426	C	LEU	C	372	61.180	103.592	-12.274	1.00	67.85	6
ATOM	6427	O	LEU	C	372	61.875	103.610	-11.253	1.00	66.75	8
ATOM	6428	N	VAL	C	373	59.894	103.248	-12.307	1.00	58.10	7
ATOM	6429	CA	VAL	C	373	59.124	102.836	-11.146	1.00	57.39	6
ATOM	6430	CB	VAL	C	373	57.690	103.234	-11.324	1.00	57.10	6
ATOM	6431	CG1	VAL	C	373	56.922	102.957	-10.059	1.00	57.34	6

ATOM	6432	CG2	VAL	C	373	57.621	104.691	-11.740	1.00	56.99	6
ATOM	6433	C	VAL	C	373	59.174	101.329	-11.000	1.00	58.00	6
ATOM	6434	O	VAL	C	373	59.004	100.599	-11.978	1.00	58.26	8
ATOM	6435	N	ASN	C	374	59.390	100.862	-9.774	1.00	33.15	7
ATOM	6436	CA	ASN	C	374	59.493	99.425	-9.516	1.00	34.29	6
ATOM	6437	CB	ASN	C	374	60.964	99.025	-9.321	1.00	128.77	6
ATOM	6438	CG	ASN	C	374	61.844	99.414	-10.501	1.00	130.53	6
ATOM	6439	OD1	ASN	C	374	61.560	99.063	-11.648	1.00	132.45	8
ATOM	6440	ND2	ASN	C	374	62.927	100.132	-10.219	1.00	130.55	7
ATOM	6441	C	ASN	C	374	58.695	98.997	-8.295	1.00	34.29	6
ATOM	6442	O	ASN	C	374	59.224	98.306	-7.424	1.00	33.45	8
ATOM	6443	N	SER	C	375	57.427	99.416	-8.266	1.00	44.69	7
ATOM	6444	CA	SER	C	375	56.444	99.141	-7.210	1.00	46.27	6
ATOM	6445	CB	SER	C	375	55.100	98.822	-7.863	1.00	208.87	6
ATOM	6446	OG	SER	C	375	54.709	99.864	-8.744	1.00	208.87	8
ATOM	6447	C	SER	C	375	56.778	98.049	-6.196	1.00	46.12	6
ATOM	6448	O	SER	C	375	56.040	97.066	-6.062	1.00	45.87	8
ATOM	6449	N	ARG	C	376	57.879	98.255	-5.475	1.00	32.74	7
ATOM	6450	CA	ARG	C	376	58.375	97.334	-4.458	1.00	32.98	6
ATOM	6451	CB	ARG	C	376	59.766	96.821	-4.840	1.00	142.46	6
ATOM	6452	CG	ARG	C	376	59.794	95.829	-5.999	1.00	146.04	6
ATOM	6453	CD	ARG	C	376	59.085	94.530	-5.637	1.00	147.74	6
ATOM	6454	NE	ARG	C	376	59.292	93.491	-6.642	1.00	149.33	7
ATOM	6455	CZ	ARG	C	376	58.718	92.292	-6.604	1.00	149.85	6
ATOM	6456	NH1	ARG	C	376	57.895	91.977	-5.612	1.00	150.47	7
ATOM	6457	NH2	ARG	C	376	58.967	91.406	-7.558	1.00	149.73	7
ATOM	6458	C	ARG	C	376	58.453	98.018	-3.101	1.00	32.39	6
ATOM	6459	O	ARG	C	376	58.211	97.395	-2.076	1.00	31.97	8
ATOM	6460	N	PRO	C	377	58.804	99.314	-3.074	1.00	46.43	7
ATOM	6461	CD	PRO	C	377	59.159	100.179	-4.213	1.00	162.38	6
ATOM	6462	CA	PRO	C	377	58.906	100.066	-1.819	1.00	45.85	6
ATOM	6463	CB	PRO	C	377	59.516	101.392	-2.261	1.00	161.93	6
ATOM	6464	CG	PRO	C	377	58.963	101.562	-3.635	1.00	162.91	6
ATOM	6465	C	PRO	C	377	57.576	100.259	-1.103	1.00	44.99	6
ATOM	6466	O	PRO	C	377	57.491	100.043	0.101	1.00	44.13	8
ATOM	6467	N	LEU	C	378	56.544	100.675	-1.830	1.00	64.77	7
ATOM	6468	CA	LEU	C	378	55.242	100.876	-1.203	1.00	64.97	6
ATOM	6469	CB	LEU	C	378	54.240	101.449	-2.199	1.00	83.43	6
ATOM	6470	CG	LEU	C	378	54.400	102.963	-2.337	1.00	84.69	6
ATOM	6471	CD1	LEU	C	378	55.849	103.294	-2.676	1.00	85.16	6
ATOM	6472	CD2	LEU	C	378	53.455	103.489	-3.402	1.00	84.91	6
ATOM	6473	C	LEU	C	378	54.722	99.581	-0.605	1.00	64.76	6
ATOM	6474	O	LEU	C	378	53.809	99.588	0.214	1.00	65.34	8
ATOM	6475	N	GLU	C	379	55.296	98.466	-1.038	1.00	42.46	7
ATOM	6476	CA	GLU	C	379	54.943	97.166	-0.497	1.00	41.70	6
ATOM	6477	CB	GLU	C	379	54.995	96.091	-1.580	1.00	100.82	6
ATOM	6478	CG	GLU	C	379	54.363	94.776	-1.173	1.00	103.75	6
ATOM	6479	CD	GLU	C	379	52.895	94.920	-0.812	1.00	105.94	6
ATOM	6480	OE1	GLU	C	379	52.151	95.538	-1.601	1.00	107.50	8
ATOM	6481	OE2	GLU	C	379	52.481	94.409	0.254	1.00	107.21	8
ATOM	6482	C	GLU	C	379	56.117	97.033	0.457	1.00	40.89	6
ATOM	6483	O	GLU	C	379	57.064	97.811	0.365	1.00	40.81	8
ATOM	6484	N	ALA	C	380	56.085	96.072	1.365	1.00	100.07	7
ATOM	6485	CA	ALA	C	380	57.179	95.951	2.319	1.00	98.75	6
ATOM	6486	CB	ALA	C	380	58.546	96.036	1.603	1.00	32.13	6
ATOM	6487	C	ALA	C	380	57.030	97.111	3.299	1.00	97.64	6

ATOM	6488	O	ALA	C	380	56.416	96.973	4.352	1.00	97.70	8
ATOM	6489	N	ALA	C	381	57.568	98.267	2.929	1.00	64.15	7
ATOM	6490	CA	ALA	C	381	57.505	99.443	3.788	1.00	63.00	6
ATOM	6491	CB	ALA	C	381	58.055	100.662	3.053	1.00	95.29	6
ATOM	6492	C	ALA	C	381	56.089	99.711	4.259	1.00	62.40	6
ATOM	6493	O	ALA	C	381	55.882	100.389	5.260	1.00	62.60	8
ATOM	6494	N	LEU	C	382	55.110	99.174	3.543	1.00	43.72	7
ATOM	6495	CA	LEU	C	382	53.730	99.385	3.939	1.00	43.03	6
ATOM	6496	CB	LEU	C	382	52.910	99.874	2.755	1.00	18.57	6
ATOM	6497	CG	LEU	C	382	51.678	100.682	3.149	1.00	17.35	6
ATOM	6498	CD1	LEU	C	382	52.011	101.661	4.281	1.00	16.89	6
ATOM	6499	CD2	LEU	C	382	51.174	101.432	1.931	1.00	18.60	6
ATOM	6500	C	LEU	C	382	53.094	98.137	4.533	1.00	44.12	6
ATOM	6501	O	LEU	C	382	52.279	98.223	5.453	1.00	43.72	8
ATOM	6502	N	ARG	C	383	53.457	96.972	4.013	1.00	111.91	7
ATOM	6503	CA	ARG	C	383	52.903	95.743	4.554	1.00	113.91	6
ATOM	6504	CB	ARG	C	383	53.065	94.581	3.566	1.00	196.78	6
ATOM	6505	CG	ARG	C	383	52.286	93.329	3.965	1.00	200.48	6
ATOM	6506	CD	ARG	C	383	52.355	92.239	2.902	1.00	203.04	6
ATOM	6507	NE	ARG	C	383	51.615	91.043	3.305	1.00	203.93	7
ATOM	6508	CZ	ARG	C	383	51.507	89.943	2.565	1.00	204.05	6
ATOM	6509	NH1	ARG	C	383	52.091	89.879	1.374	1.00	205.14	7
ATOM	6510	NH2	ARG	C	383	50.816	88.904	3.015	1.00	203.29	7
ATOM	6511	C	ARG	C	383	53.667	95.462	5.840	1.00	113.54	6
ATOM	6512	O	ARG	C	383	53.136	94.859	6.774	1.00	114.76	8
ATOM	6513	N	GLU	C	384	54.914	95.924	5.882	1.00	34.91	7
ATOM	6514	CA	GLU	C	384	55.758	95.738	7.052	1.00	32.88	6
ATOM	6515	CB	GLU	C	384	57.159	96.280	6.797	1.00	64.39	6
ATOM	6516	CG	GLU	C	384	58.111	96.040	7.938	1.00	65.02	6
ATOM	6517	CD	GLU	C	384	59.470	95.580	7.467	1.00	65.71	6
ATOM	6518	OE1	GLU	C	384	60.072	96.266	6.612	1.00	66.11	8
ATOM	6519	OE2	GLU	C	384	59.936	94.529	7.956	1.00	66.58	8
ATOM	6520	C	GLU	C	384	55.133	96.458	8.230	1.00	31.68	6
ATOM	6521	O	GLU	C	384	55.093	95.928	9.337	1.00	32.24	8
ATOM	6522	N	PHE	C	385	54.636	97.669	7.996	1.00	42.85	7
ATOM	6523	CA	PHE	C	385	53.993	98.427	9.067	1.00	42.02	6
ATOM	6524	CB	PHE	C	385	53.570	99.817	8.589	1.00	39.62	6
ATOM	6525	CG	PHE	C	385	52.555	100.480	9.484	1.00	39.09	6
ATOM	6526	CD1	PHE	C	385	52.914	100.936	10.746	1.00	38.59	6
ATOM	6527	CD2	PHE	C	385	51.236	100.607	9.082	1.00	39.56	6
ATOM	6528	CE1	PHE	C	385	51.977	101.504	11.594	1.00	37.75	6
ATOM	6529	CE2	PHE	C	385	50.293	101.171	9.922	1.00	39.49	6
ATOM	6530	CZ	PHE	C	385	50.662	101.620	11.179	1.00	38.51	6
ATOM	6531	C	PHE	C	385	52.756	97.691	9.555	1.00	40.74	6
ATOM	6532	O	PHE	C	385	52.773	97.085	10.621	1.00	40.68	8
ATOM	6533	N	PHE	C	386	51.688	97.740	8.765	1.00	28.00	7
ATOM	6534	CA	PHE	C	386	50.450	97.090	9.142	1.00	27.86	6
ATOM	6535	CB	PHE	C	386	49.583	96.816	7.916	1.00	48.14	6
ATOM	6536	CG	PHE	C	386	48.604	97.905	7.641	1.00	47.19	6
ATOM	6537	CD1	PHE	C	386	48.912	98.915	6.739	1.00	46.13	6
ATOM	6538	CD2	PHE	C	386	47.418	97.989	8.375	1.00	46.56	6
ATOM	6539	CE1	PHE	C	386	48.060	100.004	6.570	1.00	44.96	6
ATOM	6540	CE2	PHE	C	386	46.557	99.075	8.217	1.00	44.71	6
ATOM	6541	CZ	PHE	C	386	46.880	100.085	7.314	1.00	44.87	6
ATOM	6542	C	PHE	C	386	50.594	95.824	9.966	1.00	28.13	6
ATOM	6543	O	PHE	C	386	49.966	95.712	11.009	1.00	27.05	8

ATOM	6544	N	SER	C	387	51.401	94.862	9.533	1.00	26.30	7
ATOM	6545	CA	SER	C	387	51.539	93.658	10.342	1.00	26.99	6
ATOM	6546	CB	SER	C	387	51.007	92.444	9.588	1.00	123.05	6
ATOM	6547	OG	SER	C	387	51.207	91.255	10.333	1.00	126.81	8
ATOM	6548	C	SER	C	387	52.967	93.399	10.753	1.00	26.19	6
ATOM	6549	O	SER	C	387	53.561	92.448	10.290	1.00	25.05	8
ATOM	6550	N	ARG	C	388	53.502	94.244	11.625	1.00	37.99	7
ATOM	6551	CA	ARG	C	388	54.870	94.131	12.114	1.00	38.08	6
ATOM	6552	CB	ARG	C	388	55.883	94.089	10.960	1.00	112.87	6
ATOM	6553	CG	ARG	C	388	56.209	92.692	10.435	1.00	116.98	6
ATOM	6554	CD	ARG	C	388	56.968	92.739	9.115	1.00	119.48	6
ATOM	6555	NE	ARG	C	388	57.168	91.404	8.555	1.00	121.55	7
ATOM	6556	CZ	ARG	C	388	57.689	91.169	7.355	1.00	122.29	6
ATOM	6557	NH1	ARG	C	388	58.063	92.179	6.585	1.00	121.93	7
ATOM	6558	NH2	ARG	C	388	57.838	89.925	6.925	1.00	123.26	7
ATOM	6559	C	ARG	C	388	55.160	95.331	12.992	1.00	35.86	6
ATOM	6560	O	ARG	C	388	56.278	95.533	13.454	1.00	36.12	8
ATOM	6561	N	SER	C	389	54.144	96.150	13.197	1.00	45.39	7
ATOM	6562	CA	SER	C	389	54.284	97.320	14.046	1.00	43.00	6
ATOM	6563	CB	SER	C	389	53.325	98.432	13.611	1.00	39.12	6
ATOM	6564	OG	SER	C	389	53.341	99.510	14.528	1.00	35.94	8
ATOM	6565	C	SER	C	389	53.889	96.839	15.419	1.00	42.79	6
ATOM	6566	O	SER	C	389	53.447	95.696	15.573	1.00	42.20	8
ATOM	6567	N	GLN	C	390	54.084	97.693	16.419	1.00	43.33	7
ATOM	6568	CA	GLN	C	390	53.683	97.352	17.770	1.00	41.60	6
ATOM	6569	CB	GLN	C	390	54.782	97.640	18.811	1.00	54.20	6
ATOM	6570	CG	GLN	C	390	55.759	98.776	18.515	1.00	55.42	6
ATOM	6571	CD	GLN	C	390	56.733	99.036	19.681	1.00	57.75	6
ATOM	6572	OE1	GLN	C	390	57.351	98.112	20.216	1.00	57.83	8
ATOM	6573	NE2	GLN	C	390	56.871	100.304	20.066	1.00	59.66	7
ATOM	6574	C	GLN	C	390	52.462	98.195	18.012	1.00	39.24	6
ATOM	6575	O	GLN	C	390	51.910	98.210	19.096	1.00	39.78	8
ATOM	6576	N	LEU	C	391	52.048	98.904	16.973	1.00	22.08	7
ATOM	6577	CA	LEU	C	391	50.861	99.723	17.069	1.00	21.29	6
ATOM	6578	CB	LEU	C	391	51.148	101.173	16.652	1.00	15.77	6
ATOM	6579	CG	LEU	C	391	50.698	102.369	17.508	1.00	13.87	6
ATOM	6580	CD1	LEU	C	391	51.031	102.192	18.960	1.00	13.87	6
ATOM	6581	CD2	LEU	C	391	51.411	103.590	17.014	1.00	13.87	6
ATOM	6582	C	LEU	C	391	49.820	99.089	16.193	1.00	22.68	6
ATOM	6583	O	LEU	C	391	48.774	99.678	15.942	1.00	22.06	8
ATOM	6584	N	SER	C	392	50.139	97.909	15.671	1.00	43.95	7
ATOM	6585	CA	SER	C	392	49.164	97.169	14.890	1.00	46.21	6
ATOM	6586	CB	SER	C	392	49.715	96.792	13.557	1.00	85.53	6
ATOM	6587	OG	SER	C	392	48.836	95.907	12.903	1.00	90.30	8
ATOM	6588	C	SER	C	392	48.967	95.890	15.691	1.00	46.84	6
ATOM	6589	O	SER	C	392	49.482	94.831	15.306	1.00	45.92	8
ATOM	6590	N	GLN	C	393	48.147	95.990	16.740	1.00	47.13	7
ATOM	6591	CA	GLN	C	393	47.832	94.925	17.667	1.00	47.20	6
ATOM	6592	CB	GLN	C	393	47.217	95.540	18.898	1.00	30.87	6
ATOM	6593	CG	GLN	C	393	47.925	96.720	19.395	1.00	28.44	6
ATOM	6594	CD	GLN	C	393	47.360	97.211	20.675	1.00	25.75	6
ATOM	6595	OE1	GLN	C	393	46.354	96.725	21.166	1.00	24.51	8
ATOM	6596	NE2	GLN	C	393	48.006	98.187	21.235	1.00	23.12	7
ATOM	6597	C	GLN	C	393	46.929	93.850	17.118	1.00	47.76	6
ATOM	6598	O	GLN	C	393	46.520	93.884	15.954	1.00	47.04	8
ATOM	6599	N	PHE	C	394	46.632	92.891	17.987	1.00	100.33	7

ATOM	6600	CA	PHE	C	394	45.819	91.735	17.611	1.00101.57	6
ATOM	6601	CB	PHE	C	394	46.088	90.558	18.496	1.00 55.89	6
ATOM	6602	CG	PHE	C	394	45.937	89.199	17.814	1.00 56.43	6
ATOM	6603	CD1	PHE	C	394	47.022	88.610	17.163	1.00 56.75	6
ATOM	6604	CD2	PHE	C	394	44.729	88.501	17.847	1.00 56.42	6
ATOM	6605	CE1	PHE	C	394	46.903	87.378	16.571	1.00 55.89	6
ATOM	6606	CE2	PHE	C	394	44.614	87.263	17.251	1.00 56.09	6
ATOM	6607	CZ	PHE	C	394	45.701	86.706	16.613	1.00 56.21	6
ATOM	6608	C	PHE	C	394	44.386	92.136	17.908	1.00102.12	6
ATOM	6609	O	PHE	C	394	44.148	93.111	18.590	1.00105.06	8
ATOM	6610	N	LYS	C	395	43.398	91.433	17.396	1.00 43.81	7
ATOM	6611	CA	LYS	C	395	42.047	91.882	17.648	1.00 42.16	6
ATOM	6612	CB	LYS	C	395	41.163	91.329	16.587	1.00 29.19	6
ATOM	6613	CG	LYS	C	395	39.781	91.752	16.820	1.00 28.08	6
ATOM	6614	CD	LYS	C	395	39.421	92.968	15.985	1.00 27.79	6
ATOM	6615	CE	LYS	C	395	37.907	93.165	15.857	1.00 28.90	6
ATOM	6616	NZ	LYS	C	395	37.246	92.603	14.623	1.00 30.18	7
ATOM	6617	C	LYS	C	395	41.661	91.354	18.981	1.00 42.33	6
ATOM	6618	O	LYS	C	395	41.706	90.197	19.193	1.00 44.26	8
ATOM	6619	N	ASP	C	396	41.363	92.120	19.918	1.00 50.17	7
ATOM	6620	CA	ASP	C	396	40.920	91.730	21.255	1.00 49.83	6
ATOM	6621	CB	ASP	C	396	40.968	92.942	22.177	1.00 62.41	6
ATOM	6622	CG	ASP	C	396	40.953	92.600	23.650	1.00 63.51	6
ATOM	6623	OD1	ASP	C	396	39.859	92.509	24.213	1.00 64.56	8
ATOM	6624	OD2	ASP	C	396	42.030	92.530	24.284	1.00 62.94	8
ATOM	6625	C	ASP	C	396	39.518	91.320	20.926	1.00 49.88	6
ATOM	6626	O	ASP	C	396	38.765	92.120	20.429	1.00 50.51	8
ATOM	6627	N	GLU	C	397	39.080	90.123	21.021	1.00 56.43	7
ATOM	6628	CA	GLU	C	397	37.715	89.814	20.676	1.00 55.07	6
ATOM	6629	CB	GLU	C	397	37.666	89.323	19.251	1.00 49.17	6
ATOM	6630	CG	GLU	C	397	37.220	90.347	18.256	1.00 54.30	6
ATOM	6631	CD	GLU	C	397	37.118	89.754	16.863	1.00 58.33	6
ATOM	6632	OE1	GLU	C	397	36.404	90.376	16.030	1.00 60.41	8
ATOM	6633	OE2	GLU	C	397	37.749	88.677	16.650	1.00 60.82	8
ATOM	6634	C	GLU	C	397	37.006	88.814	21.516	1.00 52.66	6
ATOM	6635	O	GLU	C	397	36.171	88.083	20.991	1.00 53.22	8
ATOM	6636	N	THR	C	398	37.320	88.765	22.800	1.00 28.42	7
ATOM	6637	CA	THR	C	398	36.665	87.811	23.652	1.00 25.27	6
ATOM	6638	CB	THR	C	398	37.247	87.863	25.038	1.00 19.82	6
ATOM	6639	OG1	THR	C	398	38.607	88.268	24.933	1.00 19.57	8
ATOM	6640	CG2	THR	C	398	37.222	86.489	25.695	1.00 18.63	6
ATOM	6641	C	THR	C	398	35.177	88.132	23.682	1.00 25.57	6
ATOM	6642	O	THR	C	398	34.360	87.249	23.430	1.00 26.94	8
ATOM	6643	N	ASN	C	399	34.811	89.379	23.988	1.00 37.48	7
ATOM	6644	CA	ASN	C	399	33.392	89.759	23.996	1.00 35.58	6
ATOM	6645	CB	ASN	C	399	32.902	90.052	25.448	1.00 21.35	6
ATOM	6646	CG	ASN	C	399	32.983	91.536	25.855	1.00 19.01	6
ATOM	6647	OD1	ASN	C	399	32.951	91.854	27.043	1.00 17.99	8
ATOM	6648	ND2	ASN	C	399	33.059	92.437	24.884	1.00 17.39	7
ATOM	6649	C	ASN	C	399	33.212	90.945	23.040	1.00 35.20	6
ATOM	6650	O	ASN	C	399	34.146	91.715	22.825	1.00 35.32	8
ATOM	6651	N	PRO	C	400	32.015	91.103	22.442	1.00 48.40	7
ATOM	6652	CD	PRO	C	400	30.737	90.377	22.567	1.00 16.55	6
ATOM	6653	CA	PRO	C	400	31.877	92.238	21.531	1.00 47.22	6
ATOM	6654	CB	PRO	C	400	30.374	92.226	21.168	1.00 14.25	6
ATOM	6655	CG	PRO	C	400	29.724	91.456	22.247	1.00 13.87	6

ATOM	6656	C	PRO	C	400	32.393	93.590	22.040	1.00	46.64	6
ATOM	6657	O	PRO	C	400	33.057	94.295	21.290	1.00	46.70	8
ATOM	6658	N	LEU	C	401	32.126	93.962	23.290	1.00	28.24	7
ATOM	6659	CA	LEU	C	401	32.618	95.259	23.764	1.00	27.85	6
ATOM	6660	CB	LEU	C	401	32.372	95.455	25.262	1.00	13.87	6
ATOM	6661	CG	LEU	C	401	33.105	96.654	25.889	1.00	13.87	6
ATOM	6662	CD1	LEU	C	401	32.619	97.953	25.329	1.00	13.87	6
ATOM	6663	CD2	LEU	C	401	32.886	96.633	27.359	1.00	13.87	6
ATOM	6664	C	LEU	C	401	34.109	95.417	23.486	1.00	28.34	6
ATOM	6665	O	LEU	C	401	34.541	96.405	22.876	1.00	28.00	8
ATOM	6666	N	SER	C	402	34.879	94.434	23.946	1.00	13.95	7
ATOM	6667	CA	SER	C	402	36.327	94.383	23.779	1.00	15.21	6
ATOM	6668	CB	SER	C	402	36.784	92.924	23.812	1.00	38.02	6
ATOM	6669	OG	SER	C	402	36.100	92.173	24.805	1.00	39.19	8
ATOM	6670	C	SER	C	402	36.778	95.020	22.465	1.00	16.19	6
ATOM	6671	O	SER	C	402	37.133	96.182	22.439	1.00	16.43	8
ATOM	6672	N	SER	C	403	36.760	94.251	21.380	1.00	15.62	7
ATOM	6673	CA	SER	C	403	37.176	94.747	20.079	1.00	17.34	6
ATOM	6674	CB	SER	C	403	36.604	93.877	18.963	1.00	62.46	6
ATOM	6675	OG	SER	C	403	35.382	94.419	18.498	1.00	67.82	8
ATOM	6676	C	SER	C	403	36.755	96.199	19.860	1.00	17.00	6
ATOM	6677	O	SER	C	403	37.539	97.002	19.346	1.00	15.83	8
ATOM	6678	N	LEU	C	404	35.521	96.540	20.234	1.00	27.97	7
ATOM	6679	CA	LEU	C	404	35.026	97.916	20.092	1.00	28.89	6
ATOM	6680	CB	LEU	C	404	33.603	98.034	20.672	1.00	19.74	6
ATOM	6681	CG	LEU	C	404	32.946	99.424	20.794	1.00	19.85	6
ATOM	6682	CD1	LEU	C	404	33.091	100.242	19.523	1.00	19.19	6
ATOM	6683	CD2	LEU	C	404	31.480	99.249	21.115	1.00	19.89	6
ATOM	6684	C	LEU	C	404	36.000	98.822	20.852	1.00	29.54	6
ATOM	6685	O	LEU	C	404	36.624	99.719	20.285	1.00	28.10	8
ATOM	6686	N	ARG	C	405	36.136	98.552	22.141	1.00	35.76	7
ATOM	6687	CA	ARG	C	405	37.039	99.292	23.000	1.00	38.91	6
ATOM	6688	CB	ARG	C	405	37.145	98.572	24.342	1.00	66.63	6
ATOM	6689	CG	ARG	C	405	38.233	99.090	25.252	1.00	71.12	6
ATOM	6690	CD	ARG	C	405	38.340	98.252	26.518	1.00	73.97	6
ATOM	6691	NE	ARG	C	405	39.437	98.713	27.360	1.00	76.85	7
ATOM	6692	CZ	ARG	C	405	39.900	98.054	28.416	1.00	78.23	6
ATOM	6693	NH1	ARG	C	405	39.362	96.894	28.771	1.00	78.51	7
ATOM	6694	NH2	ARG	C	405	40.913	98.555	29.111	1.00	77.42	7
ATOM	6695	C	ARG	C	405	38.427	99.411	22.381	1.00	40.01	6
ATOM											

ATOM	6712	CE	LYS	C	407	36.856	97.930	16.448	1.00	50.82	6
ATOM	6713	NZ	LYS	C	407	36.828	97.249	15.154	1.00	54.18	7
ATOM	6714	C	LYS	C	407	39.613	102.453	19.435	1.00	31.38	6
ATOM	6715	O	LYS	C	407	40.315	103.415	19.135	1.00	30.71	8
ATOM	6716	N	ARG	C	408	38.742	102.463	20.430	1.00	37.35	7
ATOM	6717	CA	ARG	C	408	38.541	103.623	21.267	1.00	37.07	6
ATOM	6718	CB	ARG	C	408	37.306	103.398	22.149	1.00	46.72	6
ATOM	6719	CG	ARG	C	408	36.014	103.190	21.383	1.00	46.51	6
ATOM	6720	CD	ARG	C	408	35.442	104.515	20.974	1.00	48.61	6
ATOM	6721	NE	ARG	C	408	35.078	105.309	22.145	1.00	50.98	7
ATOM	6722	CZ	ARG	C	408	34.973	106.638	22.156	1.00	52.08	6
ATOM	6723	NH1	ARG	C	408	35.204	107.354	21.058	1.00	52.11	7
ATOM	6724	NH2	ARG	C	408	34.643	107.259	23.273	1.00	51.65	7
ATOM	6725	C	ARG	C	408	39.796	103.807	22.132	1.00	36.51	6
ATOM	6726	O	ARG	C	408	39.803	104.612	23.066	1.00	36.16	8
ATOM	6727	N	ARG	C	409	40.862	103.070	21.813	1.00	35.92	7
ATOM	6728	CA	ARG	C	409	42.100	103.162	22.593	1.00	35.68	6
ATOM	6729	CB	ARG	C	409	42.737	101.794	22.782	1.00	37.02	6
ATOM	6730	CG	ARG	C	409	44.122	101.843	23.419	1.00	35.78	6
ATOM	6731	CD	ARG	C	409	44.655	100.438	23.564	1.00	36.76	6
ATOM	6732	NE	ARG	C	409	43.710	99.638	24.333	1.00	38.64	7
ATOM	6733	CZ	ARG	C	409	43.783	98.323	24.497	1.00	39.22	6
ATOM	6734	NH1	ARG	C	409	44.767	97.629	23.948	1.00	39.62	7
ATOM	6735	NH2	ARG	C	409	42.857	97.701	25.208	1.00	41.22	7
ATOM	6736	C	ARG	C	409	43.178	104.088	22.086	1.00	35.88	6
ATOM	6737	O	ARG	C	409	43.510	104.107	20.896	1.00	35.91	8
ATOM	6738	N	ILE	C	410	43.729	104.842	23.030	1.00	35.02	7
ATOM	6739	CA	ILE	C	410	44.799	105.785	22.765	1.00	36.04	6
ATOM	6740	CB	ILE	C	410	44.591	107.153	23.528	1.00	32.78	6
ATOM	6741	CG2	ILE	C	410	45.939	107.795	23.826	1.00	34.25	6
ATOM	6742	CG1	ILE	C	410	43.759	108.137	22.696	1.00	31.74	6
ATOM	6743	CD1	ILE	C	410	42.278	107.862	22.649	1.00	30.33	6
ATOM	6744	C	ILE	C	410	46.034	105.089	23.318	1.00	37.94	6
ATOM	6745	O	ILE	C	410	46.056	104.717	24.493	1.00	38.10	8
ATOM	6746	N	SER	C	411	47.038	104.885	22.471	1.00	24.18	7
ATOM	6747	CA	SER	C	411	48.268	104.250	22.909	1.00	27.82	6
ATOM	6748	CB	SER	C	411	48.783	103.266	21.861	1.00	157.88	6
ATOM	6749	OG	SER	C	411	48.934	101.957	22.435	1.00	162.92	8
ATOM	6750	C	SER	C	411	49.328	105.306	23.163	1.00	28.22	6
ATOM	6751	O	SER	C	411	49.157	106.472	22.810	1.00		

ATOM	6768	O	GLY	C	414	55.907	104.249	20.529	1.00	59.87	8
ATOM	6769	N	PRO	C	415	55.778	103.592	18.679	1.00	67.48	7
ATOM	6770	CD	PRO	C	415	54.565	103.100	17.851	1.00	42.19	6
ATOM	6771	CA	PRO	C	415	56.957	103.776	17.822	1.00	69.41	6
ATOM	6772	CB	PRO	C	415	56.489	103.238	16.456	1.00	43.88	6
ATOM	6773	CG	PRO	C	415	55.322	102.382	16.781	1.00	42.95	6
ATOM	6774	C	PRO	C	415	57.383	105.244	17.719	1.00	71.76	6
ATOM	6775	O	PRO	C	415	58.644	105.425	17.279	1.00	72.81	8
ATOM	6776	N	GLY	C	416	57.069	106.150	17.236	1.00	73.40	7
ATOM	6777	CA	GLY	C	416	56.907	107.595	17.251	1.00	76.08	6
ATOM	6778	C	GLY	C	416	58.056	108.227	18.015	1.00	78.75	6
ATOM	6779	O	GLY	C	416	58.600	107.574	18.941	1.00	79.56	8
ATOM	6780	N	GLY	C	417	58.491	109.387	17.553	1.00	208.87	7
ATOM	6781	CA	GLY	C	417	59.641	110.073	18.153	1.00	208.87	6
ATOM	6782	C	GLY	C	417	59.492	110.309	19.660	1.00	208.87	6
ATOM	6783	O	GLY	C	417	58.525	110.979	20.105	1.00	208.87	8
ATOM	6784	N	LEU	C	418	60.613	109.829	20.407	1.00	178.48	7
ATOM	6785	CA	LEU	C	418	60.715	110.086	21.845	1.00	178.98	6
ATOM	6786	CB	LEU	C	418	60.914	111.587	22.111	1.00	115.94	6
ATOM	6787	CG	LEU	C	418	61.291	112.004	23.540	1.00	116.07	6
ATOM	6788	CD1	LEU	C	418	62.642	111.406	23.903	1.00	115.88	6
ATOM	6789	CD2	LEU	C	418	61.336	113.523	23.650	1.00	115.50	6
ATOM	6790	C	LEU	C	418	59.450	109.578	22.554	1.00	179.32	6
ATOM	6791	O	LEU	C	418	59.110	110.018	23.654	1.00	179.90	8
ATOM	6792	N	THR	C	419	58.770	108.637	21.901	1.00	96.26	7
ATOM	6793	CA	THR	C	419	57.544	108.025	22.404	1.00	95.44	6
ATOM	6794	CB	THR	C	419	56.928	107.117	21.340	1.00	56.35	6
ATOM	6795	OG1	THR	C	419	56.537	107.908	20.215	1.00	56.39	8
ATOM	6796	CG2	THR	C	419	55.727	106.383	21.889	1.00	56.02	6
ATOM	6797	C	THR	C	419	57.804	107.176	23.635	1.00	96.03	6
ATOM	6798	O	THR	C	419	58.207	106.020	23.508	1.00	96.11	8
ATOM	6799	N	ARG	C	420	57.558	107.745	24.814	1.00	77.71	7
ATOM	6800	CA	ARG	C	420	57.770	107.055	26.086	1.00	77.96	6
ATOM	6801	CB	ARG	C	420	56.605	107.326	27.046	1.00	104.02	6
ATOM	6802	CG	ARG	C	420	55.915	108.674	26.853	1.00	105.07	6
ATOM	6803	CD	ARG	C	420	56.881	109.843	27.005	1.00	104.95	6
ATOM	6804	NE	ARG	C	420	56.216	111.139	26.869	1.00	105.26	7
ATOM	6805	CZ	ARG	C	420	56.834	112.314	26.984	1.00	106.46	6
ATOM	6806	NH1	ARG	C	420	58.138	112.366	27.234	1.00	106.73	7
ATOM	6807	NH2	ARG	C	420	56.146	113.442	26.857	1.00	106.90	7
ATOM	6808	C	ARG	C	420	57.879	105.554	25.854	1.00	78.23	6
ATOM	6809	O	ARG	C	420	56.919	104.928	25.390	1.00	77.77	8
ATOM	6810	N	GLU	C	421	59.052	104.981	26.127	1.00	66.20	7
ATOM	6811	CA	GLU	C	421	59.214	103.543	25.959	1.00	67.97	6
ATOM	6812	CB	GLU	C	421	60.691	103.151	25.841	1.00	129.07	6
ATOM	6813	CG	GLU	C	421	61.453	103.081	27.157	1.00	131.33	6
ATOM	6814	CD	GLU	C	421	62.674	102.170	27.080	1.00	133.12	6
ATOM	6815	OE1	GLU	C	421	63.577	102.442	26.260	1.00	134.20	8
ATOM	6816	OE2	GLU	C	421	62.731	101.177	27.842	1.00	134.22	8
ATOM	6817	C	GLU	C	421	58.609	102.964	27.233	1.00	68.71	6
ATOM	6818	O	GLU	C	421	58.182	103.724	28.104	1.00	68.46	8
ATOM	6819	N	ARG	C	422	58.562	101.641	27.353	1.00	76.71	7
ATOM	6820	CA	ARG	C	422	57.993	101.021	28.546	1.00	78.22	6
ATOM	6821	CB	ARG	C	422	58.513	99.586	28.707	1.00	169.99	6
ATOM	6822	CG	ARG	C	422	60.001	99.471	29.013	1.00	172.23	6
ATOM	6823	CD	ARG	C	422	60.409	98.015	29.221	1.00	174.06	6



ATOM	6824	NE	ARG	C	422	59.588	97.355	30.236	1.00175.15	7
ATOM	6825	CZ	ARG	C	422	59.774	96.108	30.662	1.00175.32	6
ATOM	6826	NH1	ARG	C	422	60.759	95.373	30.166	1.00175.51	7
ATOM	6827	NH2	ARG	C	422	58.973	95.594	31.586	1.00175.57	7
ATOM	6828	C	ARG	C	422	58.365	101.853	29.766	1.00 78.41	6
ATOM	6829	O	ARG	C	422	57.577	101.999	30.691	1.00 77.73	8
ATOM	6830	N	ALA	C	423	59.572	102.411	29.742	1.00 83.10	7
ATOM	6831	CA	ALA	C	423	60.073	103.253	30.823	1.00 83.57	6
ATOM	6832	CB	ALA	C	423	61.008	102.442	31.717	1.00150.52	6
ATOM	6833	C	ALA	C	423	60.799	104.507	30.293	1.00 83.97	6
ATOM	6834	O	ALA	C	423	61.761	104.982	30.903	1.00 83.60	7
ATOM	6835	N	GLY	C	424	60.318	105.042	29.170	1.00195.59	8
ATOM	6836	CA	GLY	C	424	60.923	106.225	28.569	1.00196.13	6
ATOM	6837	C	GLY	C	424	61.202	107.343	29.559	1.00196.47	6
ATOM	6838	O	GLY	C	424	60.606	107.373	30.636	1.00196.41	8
ATOM	6839	N	PHE	C	425	62.092	108.271	29.200	1.00134.14	7
ATOM	6840	CA	PHE	C	425	62.436	109.370	30.102	1.00133.29	6
ATOM	6841	CB	PHE	C	425	63.622	110.182	29.559	1.00106.82	6
ATOM	6842	CG	PHE	C	425	64.887	109.996	30.360	1.00107.16	6
ATOM	6843	CD1	PHE	C	425	65.712	108.894	30.144	1.00106.92	6
ATOM	6844	CD2	PHE	C	425	65.210	110.877	31.393	1.00107.62	6
ATOM	6845	CE1	PHE	C	425	66.838	108.665	30.950	1.00107.04	6
ATOM	6846	CE2	PHE	C	425	66.335	110.656	32.205	1.00108.30	6
ATOM	6847	CZ	PHE	C	425	67.147	109.546	31.981	1.00107.74	6
ATOM	6848	C	PHE	C	425	61.284	110.307	30.458	1.00132.93	6
ATOM	6849	O	PHE	C	425	61.031	111.294	29.764	1.00133.62	8
ATOM	6850	N	ASP	C	426	60.618	109.960	31.564	1.00158.69	7
ATOM	6851	CA	ASP	C	426	59.477	110.654	32.177	1.00157.54	6
ATOM	6852	CB	ASP	C	426	59.177	112.010	31.500	1.00 82.48	6
ATOM	6853	CG	ASP	C	426	58.398	111.878	30.205	1.00 81.86	6
ATOM	6854	OD1	ASP	C	426	58.453	110.801	29.573	1.00 81.36	8
ATOM	6855	OD2	ASP	C	426	57.740	112.872	29.817	1.00 80.99	8
ATOM	6856	C	ASP	C	426	58.237	109.757	32.193	1.00156.95	6
ATOM	6857	O	ASP	C	426	57.144	110.175	31.827	1.00157.14	8
ATOM	6858	N	VAL	C	427	58.433	108.515	32.631	1.00169.51	7
ATOM	6859	CA	VAL	C	427	57.359	107.528	32.730	1.00168.75	6
ATOM	6860	CB	VAL	C	427	57.885	106.173	33.236	1.00 80.98	6
ATOM	6861	CG1	VAL	C	427	56.744	105.174	33.375	1.00 80.25	6
ATOM	6862	CG2	VAL	C	427	58.921	105.655	32.294	1.00 81.07	6
ATOM	6863	C	VAL	C	427	56.307	108.007	33.714	1.00168.67	6
ATOM	6864	O	VAL	C	427	55.355	108.690	33.335	1.00169.83	8
ATOM	6865	N	ARG	C	428					

ATOM	6880	OD1	ASP	C	429	56.609	111.595	38.508	1.00113.98	8
ATOM	6881	OD2	ASP	C	429	57.963	111.983	36.823	1.00112.70	8
ATOM	6882	C	ASP	C	429	53.393	111.861	35.566	1.00109.53	6
ATOM	6883	O	ASP	C	429	52.361	112.516	35.712	1.00109.81	8
ATOM	6884	N	VAL	C	430	53.762	111.329	34.402	1.00111.98	7
ATOM	6885	CA	VAL	C	430	52.964	111.459	33.187	1.00110.45	6
ATOM	6886	CB	VAL	C	430	53.655	110.792	31.979	1.00 68.68	6
ATOM	6887	CG1	VAL	C	430	52.653	110.543	30.862	1.00 67.72	6
ATOM	6888	CG2	VAL	C	430	54.761	111.689	31.478	1.00 69.29	6
ATOM	6889	C	VAL	C	430	51.627	110.789	33.389	1.00109.91	6
ATOM	6890	O	VAL	C	430	50.587	111.449	33.363	1.00110.52	8
ATOM	6891	N	HIS	C	431	51.671	109.472	33.579	1.00 80.56	7
ATOM	6892	CA	HIS	C	431	50.471	108.672	33.797	1.00 78.57	6
ATOM	6893	CB	HIS	C	431	50.774	107.547	34.797	1.00 58.67	6
ATOM	6894	CG	HIS	C	431	51.914	106.654	34.394	1.00 55.89	6
ATOM	6895	CD2	HIS	C	431	52.648	105.771	35.113	1.00 55.43	6
ATOM	6896	ND1	HIS	C	431	52.351	106.538	33.092	1.00 54.61	7
ATOM	6897	CE1	HIS	C	431	53.300	105.619	33.027	1.00 53.93	6
ATOM	6898	NE2	HIS	C	431	53.499	105.138	34.239	1.00 53.95	7
ATOM	6899	C	HIS	C	431	49.320	109.545	34.328	1.00 78.25	6
ATOM	6900	O	HIS	C	431	48.240	109.602	33.731	1.00 78.17	8
ATOM	6901	N	ARG	C	432	49.589	110.232	35.441	1.00 46.08	7
ATOM	6902	CA	ARG	C	432	48.640	111.120	36.121	1.00 46.27	6
ATOM	6903	CB	ARG	C	432	49.373	112.334	36.700	1.00180.77	6
ATOM	6904	CG	ARG	C	432	50.103	112.065	38.008	1.00183.68	6
ATOM	6905	CD	ARG	C	432	50.796	113.321	38.522	1.00186.25	6
ATOM	6906	NE	ARG	C	432	51.412	113.112	39.830	1.00189.10	7
ATOM	6907	CZ	ARG	C	432	52.165	114.013	40.453	1.00191.25	6
ATOM	6908	NH1	ARG	C	432	52.398	115.190	39.883	1.00191.83	7
ATOM	6909	NH2	ARG	C	432	52.683	113.745	41.646	1.00192.15	7
ATOM	6910	C	ARG	C	432	47.473	111.614	35.294	1.00 45.55	6
ATOM	6911	O	ARG	C	432	47.605	111.897	34.105	1.00 45.00	8
ATOM	6912	N	THR	C	433	46.324	111.707	35.951	1.00 44.22	7
ATOM	6913	CA	THR	C	433	45.118	112.186	35.312	1.00 44.25	6
ATOM	6914	CB	THR	C	433	43.924	112.264	36.301	1.00 50.03	6
ATOM	6915	OG1	THR	C	433	43.121	111.092	36.165	1.00 49.50	8
ATOM	6916	CG2	THR	C	433	43.054	113.474	36.021	1.00 49.59	6
ATOM	6917	C	THR	C	433	45.404	113.574	34.776	1.00 45.40	6
ATOM	6918	O	THR	C	433	45.919	114.447	35.486	1.00 45.43	8
ATOM	6919	N	HIS	C	434	45.075	113.756	33.504	1.00156.27	7
ATOM	6920	CA	HIS	C	434	45.254	115.025	32.826	1.00157.07	6
ATOM	6921	CB	HIS	C	43					

ATOM	6936	CE2	TYR	C	435	47.084	120.022	34.823	0.00	77.84	6
ATOM	6937	CZ	TYR	C	435	47.482	120.109	33.498	0.00	77.79	6
ATOM	6938	OH	TYR	C	435	48.796	120.390	33.199	0.00	78.17	8
ATOM	6939	C	TYR	C	435	42.102	117.978	32.636	1.00	68.74	6
ATOM	6940	O	TYR	C	435	40.948	118.405	32.685	1.00	69.03	8
ATOM	6941	N	GLY	C	436	42.712	117.650	31.495	1.00	67.62	7
ATOM	6942	CA	GLY	C	436	42.007	117.692	30.226	1.00	68.62	6
ATOM	6943	C	GLY	C	436	41.179	116.407	30.171	1.00	69.36	6
ATOM	6944	O	GLY	C	436	41.598	115.412	29.585	1.00	72.11	8
ATOM	6945	N	ARG	C	437	40.007	116.424	30.803	1.00	55.47	7
ATOM	6946	CA	ARG	C	437	39.119	115.263	30.855	1.00	52.65	6
ATOM	6947	CB	ARG	C	437	38.202	115.375	32.070	1.00	51.14	6
ATOM	6948	CG	ARG	C	437	37.287	116.577	32.054	1.00	50.84	6
ATOM	6949	CD	ARG	C	437	36.395	116.602	33.275	1.00	51.08	6
ATOM	6950	NE	ARG	C	437	35.064	117.071	32.919	1.00	52.43	7
ATOM	6951	CZ	ARG	C	437	34.135	117.411	33.800	1.00	53.50	6
ATOM	6952	NH1	ARG	C	437	34.389	117.337	35.096	1.00	53.97	7
ATOM	6953	NH2	ARG	C	437	32.953	117.832	33.385	1.00	54.15	7
ATOM	6954	C	ARG	C	437	38.269	115.004	29.602	1.00	52.18	6
ATOM	6955	O	ARG	C	437	37.055	115.243	29.574	1.00	52.84	8
ATOM	6956	N	ILE	C	438	38.928	114.486	28.574	1.00	74.85	7
ATOM	6957	CA	ILE	C	438	38.304	114.161	27.298	1.00	73.00	6
ATOM	6958	CB	ILE	C	438	38.672	115.195	26.233	1.00	47.80	6
ATOM	6959	CG2	ILE	C	438	37.485	115.435	25.387	1.00	49.03	6
ATOM	6960	CG1	ILE	C	438	39.127	116.519	26.868	1.00	47.22	6
ATOM	6961	CD1	ILE	C	438	39.368	117.667	25.873	1.00	44.57	6
ATOM	6962	C	ILE	C	438	38.913	112.820	26.900	1.00	72.42	6
ATOM	6963	O	ILE	C	438	39.014	112.458	25.730	1.00	73.30	8
ATOM	6964	N	CYS	C	439	39.323	112.102	27.931	1.00	77.21	7
ATOM	6965	CA	CYS	C	439	39.978	110.817	27.830	1.00	75.33	6
ATOM	6966	CB	CYS	C	439	41.477	111.086	27.736	1.00	47.34	6
ATOM	6967	SG	CYS	C	439	42.633	109.723	27.743	1.00	37.84	16
ATOM	6968	C	CYS	C	439	39.591	110.191	29.165	1.00	76.68	6
ATOM	6969	O	CYS	C	439	39.559	110.873	30.183	1.00	77.75	8
ATOM	6970	N	PRO	C	440	39.304	108.885	29.180	1.00	34.22	7
ATOM	6971	CD	PRO	C	440	39.890	107.984	28.176	1.00	105.10	6
ATOM	6972	CA	PRO	C	440	38.896	108.117	30.369	1.00	34.23	6
ATOM	6973	CB	PRO	C	440	39.057	106.678	29.912	1.00	105.80	6
ATOM	6974	CG	PRO	C	440	40.237	106.770	29.007	1.00	107.40	6
ATOM	6975	C	PRO	C	440	39.708	108.401	31.610</			

ATOM	6992	O	GLU	C	442	39.150	102.981	34.617	1.00111.15	8
ATOM	6993	N	THR	C	443	40.713	103.957	33.328	1.00128.30	7
ATOM	6994	CA	THR	C	443	40.832	102.830	32.394	1.00129.11	6
ATOM	6995	CB	THR	C	443	40.634	103.300	30.929	1.00139.96	6
ATOM	6996	OG1	THR	C	443	39.325	103.854	30.775	1.00139.87	8
ATOM	6997	CG2	THR	C	443	40.777	102.138	29.969	1.00141.01	6
ATOM	6998	C	THR	C	443	42.125	101.999	32.422	1.00129.49	6
ATOM	6999	O	THR	C	443	42.080	100.783	32.247	1.00130.53	8
ATOM	7000	N	PRO	C	444	43.288	102.639	32.637	1.00 77.51	7
ATOM	7001	CD	PRO	C	444	43.423	104.024	33.120	1.00 66.72	6
ATOM	7002	CA	PRO	C	444	44.590	101.959	32.675	1.00 78.03	6
ATOM	7003	CB	PRO	C	444	45.446	102.908	33.507	1.00 67.09	6
ATOM	7004	CG	PRO	C	444	44.922	104.228	33.138	1.00 66.86	6
ATOM	7005	C	PRO	C	444	44.581	100.560	33.270	1.00 78.64	6
ATOM	7006	O	PRO	C	444	43.617	100.162	33.918	1.00 80.74	8
ATOM	7007	N	GLU	C	445	45.657	99.812	33.053	1.00 35.81	7
ATOM	7008	CA	GLU	C	445	45.733	98.482	33.634	1.00 35.36	6
ATOM	7009	CB	GLU	C	445	45.944	97.440	32.537	1.00 77.62	6
ATOM	7010	CG	GLU	C	445	44.692	96.612	32.246	1.00 79.75	6
ATOM	7011	CD	GLU	C	445	44.799	95.175	32.736	1.00 80.05	6
ATOM	7012	OE1	GLU	C	445	45.667	94.434	32.235	1.00 80.64	8
ATOM	7013	OE2	GLU	C	445	44.015	94.784	33.619	1.00 81.30	8
ATOM	7014	C	GLU	C	445	46.796	98.339	34.751	1.00 34.05	6
ATOM	7015	O	GLU	C	445	46.697	98.974	35.797	1.00 34.45	8
ATOM	7016	N	GLY	C	446	47.799	97.493	34.554	1.00107.56	7
ATOM	7017	CA	GLY	C	446	48.804	97.328	35.593	1.00107.12	6
ATOM	7018	C	GLY	C	446	50.242	97.318	35.103	1.00106.84	6
ATOM	7019	O	GLY	C	446	50.555	96.730	34.062	1.00108.10	8
ATOM	7020	N	ALA	C	447	51.122	97.972	35.857	1.00 30.72	7
ATOM	7021	CA	ALA	C	447	52.540	98.037	35.513	1.00 28.70	6
ATOM	7022	CB	ALA	C	447	53.145	96.629	35.534	1.00121.82	6
ATOM	7023	C	ALA	C	447	52.753	98.689	34.145	1.00 27.10	6
ATOM	7024	O	ALA	C	447	53.863	98.708	33.607	1.00 26.16	8
ATOM	7025	N	ASN	C	448	51.670	99.231	33.605	1.00 30.81	7
ATOM	7026	CA	ASN	C	448	51.650	99.891	32.305	1.00 29.38	6
ATOM	7027	CB	ASN	C	448	51.067	98.926	31.261	1.00 61.60	6
ATOM	7028	CG	ASN	C	448	51.307	99.381	29.845	1.00 64.54	6
ATOM	7029	OD1	ASN	C	448	51.317	100.567	29.561	1.00 68.29	8
ATOM	7030	ND2	ASN	C	448	51.487	98.435	28.944	1.00 65.27	7
ATOM	7031	C	ASN	C	448	50.719	101.102	32.466	1.00 27.57	6
ATOM	7032	O	ASN	C	448	50.221	101.644	31.487	1.00 26.46	8
ATOM	7033	N	ILE	C	449	50.486	101.505	33.716	1.00 71.41	7
ATOM	7034	CA	ILE	C	449	49.587	102.615	34.059	1.00 71.54	6
ATOM	7035	CB	ILE	C	449	49.902	103.160	35.467	1.00138.02	6
ATOM	7036	CG2	ILE	C	449	48.723	103.956	35.986	1.00138.57	6
ATOM	7037	CG1	ILE	C	449	50.209	102.004	36.422	1.00138.34	6
ATOM	7038	CD1	ILE	C	449	49.134	100.939	36.475	1.00139.38	6
ATOM	7039	C	ILE	C	449	49.627	103.792	33.087	1.00 70.75	6
ATOM	7040	O	ILE	C	449	50.579	103.946	32.329	1.00 71.98	8
ATOM	7041	N	GLY	C	450	48.579	104.614	33.116	1.00 82.97	7
ATOM	7042	CA	GLY	C	450	48.502	105.798	32.268	1.00 80.93	6
ATOM	7043	C	GLY	C	450	48.743	105.648	30.778	1.00 79.00	6
ATOM	7044	O	GLY	C	450	47.830	105.815	29.976	1.00 79.47	8
ATOM	7045	N	LEU	C	451	49.982	105.359	30.405	1.00 53.93	7
ATOM	7046	CA	LEU	C	451	50.367	105.186	29.007	1.00 52.47	6
ATOM	7047	CB	LEU	C	451	51.494	104.173	28.908	1.00 30.07	6

ATOM	7048	CG	LEU	C	451	52.689	104.410	29.809	1.00	29.20	6
ATOM	7049	CD1	LEU	C	451	53.644	103.265	29.605	1.00	28.64	6
ATOM	7050	CD2	LEU	C	451	53.342	105.743	29.498	1.00	28.84	6
ATOM	7051	C	LEU	C	451	49.237	104.724	28.093	1.00	52.53	6
ATOM	7052	O	LEU	C	451	49.004	105.303	27.033	1.00	52.57	8
ATOM	7053	N	ILE	C	452	48.547	103.667	28.505	1.00	37.93	7
ATOM	7054	CA	ILE	C	452	47.466	103.115	27.713	1.00	39.02	6
ATOM	7055	CB	ILE	C	452	47.519	101.621	27.717	1.00	49.63	6
ATOM	7056	CG2	ILE	C	452	46.469	101.088	26.781	1.00	51.01	6
ATOM	7057	CG1	ILE	C	452	48.910	101.167	27.300	1.00	51.02	6
ATOM	7058	CD1	ILE	C	452	49.150	99.705	27.517	1.00	52.72	6
ATOM	7059	C	ILE	C	452	46.094	103.515	28.200	1.00	39.38	6
ATOM	7060	O	ILE	C	452	45.488	102.826	29.012	1.00	40.50	8
ATOM	7061	N	THR	C	453	45.591	104.621	27.680	1.00	42.99	7
ATOM	7062	CA	THR	C	453	44.286	105.104	28.083	1.00	43.18	6
ATOM	7063	CB	THR	C	453	44.306	106.628	28.190	1.00	78.48	6
ATOM	7064	OG1	THR	C	453	42.988	107.100	28.474	1.00	82.01	8
ATOM	7065	CG2	THR	C	453	44.820	107.248	26.898	1.00	77.30	6
ATOM	7066	C	THR	C	453	43.214	104.675	27.093	1.00	43.15	6
ATOM	7067	O	THR	C	453	43.518	104.039	26.077	1.00	43.49	8
ATOM	7068	N	SER	C	454	41.963	105.017	27.397	1.00	45.38	7
ATOM	7069	CA	SER	C	454	40.850	104.674	26.524	1.00	45.94	6
ATOM	7070	CB	SER	C	454	39.728	104.016	27.325	1.00	81.44	6
ATOM	7071	OG	SER	C	454	38.829	103.337	26.460	1.00	86.20	8
ATOM	7072	C	SER	C	454	40.330	105.916	25.801	1.00	45.54	6
ATOM	7073	O	SER	C	454	41.045	106.497	24.995	1.00	46.42	8
ATOM	7074	N	LEU	C	455	39.099	106.339	26.076	1.00	48.01	7
ATOM	7075	CA	LEU	C	455	38.560	107.513	25.396	1.00	47.92	6
ATOM	7076	CB	LEU	C	455	38.567	107.277	23.889	1.00	34.19	6
ATOM	7077	CG	LEU	C	455	38.176	108.510	23.095	1.00	35.88	6
ATOM	7078	CD1	LEU	C	455	39.200	109.570	23.404	1.00	36.69	6
ATOM	7079	CD2	LEU	C	455	38.119	108.232	21.613	1.00	35.89	6
ATOM	7080	C	LEU	C	455	37.146	107.889	25.835	1.00	47.75	6
ATOM	7081	O	LEU	C	455	36.266	107.033	25.900	1.00	47.58	8
ATOM	7082	N	ALA	C	456	36.938	109.177	26.118	1.00	47.48	7
ATOM	7083	CA	ALA	C	456	35.633	109.702	26.551	1.00	46.84	6
ATOM	7084	CB	ALA	C	456	35.653	111.226	26.601	1.00	16.72	6
ATOM	7085	C	ALA	C	456	34.543	109.262	25.616	1.00	46.95	6
ATOM	7086	O	ALA	C	456	34.716	109.289	24.402	1.00	47.71	8
ATOM	7087	N	ALA	C	457	33.408	108.883	26.177	1.00	39.38	7
ATOM	7088	CA	ALA	C	457	32.315	108.433	25.350	1.00	39.45	6
ATOM	7089	CB	ALA	C	457	31.103	108.211	26.187	1.00	13.87	6
ATOM	7090	C	ALA	C	457	32.023	109.441	24.263	1.00	39.11	6
ATOM	7091	O	ALA	C	457	32.367	109.250	23.105	1.00	39.87	8
ATOM	7092	N	TYR	C	458	31.403	110.535	24.648	1.00	36.08	7
ATOM	7093	CA	TYR	C	458	31.044	111.565	23.701	1.00	37.92	6
ATOM	7094	CB	TYR	C	458	30.203	112.617	24.412	1.00	33.09	6
ATOM	7095	CG	TYR	C	458	28.740	112.305	24.598	1.00	31.68	6
ATOM	7096	CD1	TYR	C	458	28.315	111.161	25.264	1.00	31.59	6
ATOM	7097	CE1	TYR	C	458	26.974	110.917	25.476	1.00	30.71	6
ATOM	7098	CD2	TYR	C	458	27.782	113.191	24.150	1.00	31.70	6
ATOM	7099	CE2	TYR	C	458	26.458	112.963	24.354	1.00	31.63	6
ATOM	7100	CZ	TYR	C	458	26.052	111.832	25.013	1.00	31.31	6
ATOM	7101	OH	TYR	C	458	24.705	111.627	25.183	1.00	32.83	8
ATOM	7102	C	TYR	C	458	32.224	112.273	23.031	1.00	40.86	6
ATOM	7103	O	TYR	C	458	31.997	113.158	22.206	1.00	41.46	8

ATOM	7104	N	ALA	C	459	33.460	111.894	23.372	1.00	61.61	7
ATOM	7105	CA	ALA	C	459	34.681	112.541	22.852	1.00	63.60	6
ATOM	7106	CB	ALA	C	459	35.901	111.926	23.525	1.00	181.11	6
ATOM	7107	C	ALA	C	459	34.948	112.643	21.349	1.00	64.59	6
ATOM	7108	O	ALA	C	459	34.663	111.733	20.572	1.00	65.49	8
ATOM	7109	N	ARG	C	460	35.532	113.772	20.967	1.00	66.70	7
ATOM	7110	CA	ARG	C	460	35.904	114.078	19.588	1.00	68.41	6
ATOM	7111	CB	ARG	C	460	37.184	113.342	19.205	1.00	52.09	6
ATOM	7112	CG	ARG	C	460	37.435	113.406	17.721	1.00	50.99	6
ATOM	7113	CD	ARG	C	460	38.894	113.455	17.377	1.00	50.98	6
ATOM	7114	NE	ARG	C	460	39.647	112.360	17.975	1.00	52.48	7
ATOM	7115	CZ	ARG	C	460	40.920	112.086	17.692	1.00	52.62	6
ATOM	7116	NH1	ARG	C	460	41.574	112.830	16.811	1.00	51.72	7
ATOM	7117	NH2	ARG	C	460	41.547	111.082	18.302	1.00	53.37	7
ATOM	7118	C	ARG	C	460	34.921	113.891	18.446	1.00	70.46	6
ATOM	7119	O	ARG	C	460	34.249	112.865	18.349	1.00	70.85	8
ATOM	7120	N	VAL	C	461	34.905	114.898	17.565	1.00	174.70	7
ATOM	7121	CA	VAL	C	461	34.087	114.968	16.346	1.00	175.02	6
ATOM	7122	CB	VAL	C	461	32.671	114.371	16.535	1.00	46.89	6
ATOM	7123	CG1	VAL	C	461	31.623	115.263	15.908	1.00	47.41	6
ATOM	7124	CG2	VAL	C	461	32.607	113.039	15.853	1.00	45.72	6
ATOM	7125	C	VAL	C	461	33.947	116.401	15.824	1.00	175.88	6
ATOM	7126	O	VAL	C	461	33.629	117.314	16.586	1.00	176.25	8
ATOM	7127	N	ALA	C	462	34.181	116.564	14.519	1.00	122.51	7
ATOM	7128	CA	ALA	C	462	34.112	117.845	13.796	1.00	123.73	6
ATOM	7129	CB	ALA	C	462	33.877	119.005	14.752	1.00	28.29	6
ATOM	7130	C	ALA	C	462	35.426	118.052	13.046	1.00	125.07	6
ATOM	7131	O	ALA	C	462	36.335	117.228	13.165	1.00	125.53	8
ATOM	7132	N	ALA	C	463	35.527	119.137	12.273	1.00	128.67	7
ATOM	7133	CA	ALA	C	463	36.752	119.423	11.522	1.00	128.13	6
ATOM	7134	CB	ALA	C	463	36.757	120.887	11.040	1.00	50.08	6
ATOM	7135	C	ALA	C	463	37.923	119.147	12.469	1.00	127.82	6
ATOM	7136	O	ALA	C	463	38.264	119.978	13.318	1.00	128.71	8
ATOM	7137	N	LEU	C	464	38.525	117.967	12.313	1.00	54.63	7
ATOM	7138	CA	LEU	C	464	39.616	117.507	13.185	1.00	54.40	6
ATOM	7139	CB	LEU	C	464	39.453	116.008	13.435	1.00	112.52	6
ATOM	7140	CG	LEU	C	464	40.430	115.419	14.447	1.00	113.36	6
ATOM	7141	CD1	LEU	C	464	40.184	116.035	15.817	1.00	114.51	6
ATOM	7142	CD2	LEU	C	464	40.258	113.913	14.487	1.00	114.04	6
ATOM	7143	C	LEU	C	464	41.089	117.786				

ATOM	7160	N	ILE	C	467	43.395	116.681	18.667	1.00	42.94	7
ATOM	7161	CA	ILE	C	467	42.888	116.482	20.033	1.00	41.29	6
ATOM	7162	CB	ILE	C	467	43.575	117.476	20.973	1.00	110.42	6
ATOM	7163	CG2	ILE	C	467	43.261	117.123	22.413	1.00	109.50	6
ATOM	7164	CG1	ILE	C	467	45.090	117.367	20.775	1.00	112.81	6
ATOM	7165	CD1	ILE	C	467	45.907	118.427	21.464	1.00	116.18	6
ATOM	7166	C	ILE	C	467	41.403	116.366	20.449	1.00	38.46	6
ATOM	7167	O	ILE	C	467	40.613	117.291	20.366	1.00	37.83	8
ATOM	7168	N	ARG	C	468	41.089	115.184	20.960	1.00	64.17	7
ATOM	7169	CA	ARG	C	468	39.781	114.749	21.437	1.00	61.14	6
ATOM	7170	CB	ARG	C	468	39.993	113.970	22.723	1.00	65.30	6
ATOM	7171	CG	ARG	C	468	41.068	112.935	22.573	1.00	63.34	6
ATOM	7172	CD	ARG	C	468	41.819	112.761	23.857	1.00	62.63	6
ATOM	7173	NE	ARG	C	468	42.908	111.817	23.679	1.00	62.42	7
ATOM	7174	CZ	ARG	C	468	43.681	111.375	24.662	1.00	62.87	6
ATOM	7175	NH1	ARG	C	468	43.487	111.796	25.906	1.00	62.17	7
ATOM	7176	NH2	ARG	C	468	44.647	110.505	24.398	1.00	62.03	7
ATOM	7177	C	ARG	C	468	38.578	115.666	21.618	1.00	59.37	6
ATOM	7178	O	ARG	C	468	37.467	115.218	21.389	1.00	59.52	8
ATOM	7179	N	THR	C	469	38.762	116.911	22.046	1.00	28.37	7
ATOM	7180	CA	THR	C	469	37.618	117.830	22.247	1.00	27.33	6
ATOM	7181	CB	THR	C	469	37.348	118.700	20.995	1.00	77.07	6
ATOM	7182	OG1	THR	C	469	36.958	117.865	19.905	1.00	77.37	8
ATOM	7183	CG2	THR	C	469	38.578	119.489	20.600	1.00	77.50	6
ATOM	7184	C	THR	C	469	36.261	117.182	22.627	1.00	25.69	6
ATOM	7185	O	THR	C	469	35.666	116.455	21.828	1.00	25.93	8
ATOM	7186	N	PRO	C	470	35.737	117.473	23.842	1.00	39.55	7
ATOM	7187	CD	PRO	C	470	36.260	118.385	24.884	1.00	24.20	6
ATOM	7188	CA	PRO	C	470	34.457	116.892	24.268	1.00	38.89	6
ATOM	7189	CB	PRO	C	470	34.534	116.963	25.779	1.00	22.75	6
ATOM	7190	CG	PRO	C	470	35.172	118.308	25.980	1.00	22.38	6
ATOM	7191	C	PRO	C	470	33.304	117.716	23.741	1.00	39.28	6
ATOM	7192	O	PRO	C	470	33.425	118.405	22.726	1.00	41.11	8
ATOM	7193	N	TYR	C	471	32.182	117.654	24.437	1.00	32.55	7
ATOM	7194	CA	TYR	C	471	31.016	118.403	24.025	1.00	34.52	6
ATOM	7195	CB	TYR	C	471	29.879	117.433	23.683	1.00	75.03	6
ATOM	7196	CG	TYR	C	471	30.055	116.756	22.333	1.00	77.73	6
ATOM	7197	CD1	TYR	C	471	31.199	116.012	22.041	1.00	77.86	6
ATOM	7198	CE1	TYR	C	471	31.398	115.467	20.777	1.00	78.14	6
ATOM	7199	CD2	TYR	C	471	29.109	116.923	21.319	1.00	78.93	6
ATOM	7200	CE2	TYR	C	471	29.305	116.376	20.052	1.00	78.86	6
ATOM	7201	CZ	TYR	C	471	30.449	115.656	19.794	1.00	78.86	6
ATOM	7202	OH	TYR	C	471	30.646	115.138	18.543	1.00	80.15	8
ATOM	7203	C	TYR	C	471	30.626	119.316	25.162	1.00	35.18	6
ATOM	7204	O	TYR	C	471	30.895	119.013	26.321	1.00	35.81	8
ATOM	7205	N	ARG	C	472	30.017	120.450	24.841	1.00	59.06	7
ATOM	7206	CA	ARG	C	472	29.589	121.380	25.876	1.00	59.21	6
ATOM	7207	CB	ARG	C	472	30.739	122.306	26.280	1.00	47.34	6
ATOM	7208	CG	ARG	C	472	32.014	121.578	26.692	1.00	46.47	6
ATOM	7209	CD	ARG	C	472	32.857	122.380	27.671	1.00	46.11	6
ATOM	7210	NE	ARG	C	472	34.206	121.839	27.775	1.00	47.37	7
ATOM	7211	CZ	ARG	C	472	34.486	120.594	28.139	1.00	47.44	6
ATOM	7212	NH1	ARG	C	472	33.499	119.766	28.436	1.00	46.95	7
ATOM	7213	NH2	ARG	C	472	35.748	120.175	28.196	1.00	47.86	7
ATOM	7214	C	ARG	C	472	28.403	122.210	25.414	1.00	60.34	6
ATOM	7215	O	ARG	C	472	28.386	122.726	24.301	1.00	61.28	8

ATOM	7216	N	ARG	C	473	27.403	122.330	26.272	1.00	55.07	7
ATOM	7217	CA	ARG	C	473	26.227	123.115	25.943	1.00	56.77	6
ATOM	7218	CB	ARG	C	473	25.078	122.723	26.869	1.00	63.20	6
ATOM	7219	CG	ARG	C	473	23.718	122.857	26.235	1.00	63.69	6
ATOM	7220	CD	ARG	C	473	22.651	122.179	27.073	1.00	64.69	6
ATOM	7221	NE	ARG	C	473	21.331	122.309	26.459	1.00	66.59	7
ATOM	7222	CZ	ARG	C	473	20.197	121.877	27.007	1.00	67.61	6
ATOM	7223	NH1	ARG	C	473	20.222	121.278	28.194	1.00	68.38	7
ATOM	7224	NH2	ARG	C	473	19.035	122.055	26.378	1.00	66.88	7
ATOM	7225	C	ARG	C	473	26.575	124.604	26.091	1.00	58.13	6
ATOM	7226	O	ARG	C	473	27.644	124.956	26.584	1.00	58.42	8
ATOM	7227	N	VAL	C	474	25.678	125.474	25.651	1.00	43.60	7
ATOM	7228	CA	VAL	C	474	25.880	126.924	25.700	1.00	45.65	6
ATOM	7229	CB	VAL	C	474	26.764	127.410	24.510	1.00	105.12	6
ATOM	7230	CG1	VAL	C	474	26.961	128.919	24.573	1.00	107.36	6
ATOM	7231	CG2	VAL	C	474	28.103	126.694	24.511	1.00	104.39	6
ATOM	7232	C	VAL	C	474	24.482	127.505	25.517	1.00	46.42	6
ATOM	7233	O	VAL	C	474	24.228	128.288	24.591	1.00	46.13	8
ATOM	7234	N	ALA	C	475	23.572	127.085	26.390	1.00	68.26	7
ATOM	7235	CA	ALA	C	475	22.171	127.507	26.346	1.00	69.34	6
ATOM	7236	CB	ALA	C	475	22.074	129.017	26.224	1.00	168.36	6
ATOM	7237	C	ALA	C	475	21.429	126.837	25.188	1.00	69.26	6
ATOM	7238	O	ALA	C	475	21.237	127.431	24.121	1.00	67.34	8
ATOM	7239	N	ALA	C	476	21.031	125.590	25.422	1.00	62.24	7
ATOM	7240	CA	ALA	C	476	20.295	124.784	24.455	1.00	64.22	6
ATOM	7241	CB	ALA	C	476	18.887	125.337	24.294	1.00	146.64	6
ATOM	7242	C	ALA	C	476	20.969	124.690	23.098	1.00	65.26	6
ATOM	7243	O	ALA	C	476	20.937	123.640	22.453	1.00	64.43	8
ATOM	7244	N	GLY	C	477	21.561	125.802	22.677	1.00	116.21	7
ATOM	7245	CA	GLY	C	477	22.239	125.890	21.399	1.00	118.42	6
ATOM	7246	C	GLY	C	477	22.437	124.574	20.684	1.00	118.96	6
ATOM	7247	O	GLY	C	477	21.511	124.034	20.075	1.00	119.12	8
ATOM	7248	N	ALA	C	478	23.654	124.057	20.761	1.00	84.50	7
ATOM	7249	CA	ALA	C	478	23.970	122.803	20.109	1.00	85.41	6
ATOM	7250	CB	ALA	C	478	24.664	123.065	18.782	1.00	170.39	6
ATOM	7251	C	ALA	C	478	24.859	121.962	21.001	1.00	85.57	6
ATOM	7252	O	ALA	C	478	24.391	121.074	21.704	1.00	84.87	8
ATOM	7253	N	VAL	C	479	26.149	122.247	20.966	1.00	65.43	7
ATOM	7254	CA	VAL	C	479	27.096	121.505	21.766	1.00	66.60	6
ATOM	7255	CB	VAL	C	479	27.087	120.012	21.413	1.00	80.06	6
ATOM	7256	CG1	VAL	C	479	26.146	119.259	22.325	1.00	80.61	6
ATOM	7257	CG2	VAL	C	479	26.686	119.835	19.963	1.00	80.04	6
ATOM	7258	C	VAL	C	479	28.484	122.036	21.507	1.00	67.45	6
ATOM	7259	O	VAL	C	479	29.404	121.748	22.266	1.00	67.56	8
ATOM	7260	N	THR	C	480	28.633	122.814	20.439	1.00	38.12	7
ATOM	7261	CA	THR	C	480	29.930	123.373	20.091	1.00	37.95	6
ATOM	7262	CB	THR	C	480	30.187	124.735	20.803	1.00	59.69	6
ATOM	7263	OG1	THR	C	480	31.528	125.179	20.545	1.00	60.79	8
ATOM	7264	CG2	THR	C	480	30.001	124.605	22.300	1.00	59.28	6
ATOM	7265	C	THR	C	480	31.027	122.407	20.495	1.00	38.63	6
ATOM	7266	O	THR	C	480	31.440	122.378	21.653	1.00	37.92	8
ATOM	7267	N	GLU	C	481	31.485	121.601	19.546	1.00	70.47	7
ATOM	7268	CA	GLU	C	481	32.553	120.649	19.819	1.00	72.47	6
ATOM	7269	CB	GLU	C	481	33.082	120.056	18.512	1.00	208.87	6
ATOM	7270	CG	GLU	C	481	32.010	119.706	17.478	1.00	208.87	6
ATOM	7271	CD	GLU	C	481	31.548	120.907	16.661	1.00	208.87	6



ATOM	7272	OE1	GLU	C	481	30.845	121.784	17.209	1.00208.87	8
ATOM	7273	OE2	GLU	C	481	31.893	120.978	15.461	1.00208.87	8
ATOM	7274	C	GLU	C	481	33.655	121.449	20.506	1.00 71.91	6
ATOM	7275	O	GLU	C	481	34.351	122.237	19.868	1.00 72.01	8
ATOM	7276	N	ALA	C	482	33.796	121.258	21.812	1.00 73.53	7
ATOM	7277	CA	ALA	C	482	34.796	121.982	22.580	1.00 74.20	6
ATOM	7278	CB	ALA	C	482	34.829	121.473	24.006	1.00 70.38	6
ATOM	7279	C	ALA	C	482	36.173	121.870	21.959	1.00 75.30	6
ATOM	7280	O	ALA	C	482	36.348	121.224	20.929	1.00 75.99	8
ATOM	7281	N	ALA	C	483	37.144	122.521	22.593	1.00132.12	7
ATOM	7282	CA	ALA	C	483	38.531	122.523	22.136	1.00132.18	6
ATOM	7283	CB	ALA	C	483	38.787	123.725	21.228	1.00145.75	6
ATOM	7284	C	ALA	C	483	39.430	122.585	23.366	1.00131.50	6
ATOM	7285	O	ALA	C	483	39.509	123.609	24.032	1.00131.95	8
ATOM	7286	N	VAL	C	484	40.106	121.477	23.645	1.00 42.28	7
ATOM	7287	CA	VAL	C	484	40.988	121.318	24.801	1.00 42.41	6
ATOM	7288	CB	VAL	C	484	42.096	120.318	24.498	1.00164.56	6
ATOM	7289	CG1	VAL	C	484	42.856	120.000	25.774	1.00165.45	6
ATOM	7290	CG2	VAL	C	484	41.492	119.061	23.901	1.00165.59	6
ATOM	7291	C	VAL	C	484	41.615	122.563	25.397	1.00 41.56	6
ATOM	7292	O	VAL	C	484	41.859	122.607	26.597	1.00 42.17	8
ATOM	7293	N	ALA	C	485	41.913	123.558	24.574	1.00 71.27	7
ATOM	7294	CA	ALA	C	485	42.455	124.804	25.097	1.00 70.95	6
ATOM	7295	CB	ALA	C	485	43.592	125.307	24.224	1.00 13.87	6
ATOM	7296	C	ALA	C	485	41.266	125.766	25.064	1.00 71.12	6
ATOM	7297	O	ALA	C	485	41.348	126.883	24.565	1.00 71.61	8
ATOM	7298	N	MET	C	486	40.143	125.290	25.587	1.00 78.07	7
ATOM	7299	CA	MET	C	486	38.918	126.067	25.625	1.00 77.99	6
ATOM	7300	CB	MET	C	486	37.701	125.149	25.473	1.00 78.50	6
ATOM	7301	CG	MET	C	486	36.382	125.870	25.255	1.00 78.76	6
ATOM	7302	SD	MET	C	486	35.061	124.774	24.651	1.00 77.29	16
ATOM	7303	CE	MET	C	486	35.149	125.096	22.898	1.00 77.76	6
ATOM	7304	C	MET	C	486	38.860	126.791	26.956	1.00 78.61	6
ATOM	7305	O	MET	C	486	39.085	126.197	28.017	1.00 78.63	8
ATOM	7306	N	ALA	C	487	38.568	128.086	26.872	1.00157.96	7
ATOM	7307	CA	ALA	C	487	38.464	128.966	28.027	1.00157.73	6
ATOM	7308	CB	ALA	C	487	39.405	130.159	27.856	1.00 13.87	6
ATOM	7309	C	ALA	C	487	37.030	129.460	28.164	1.00157.88	6
ATOM	7310	O	ALA	C	487	36.659	130.007	29.202	1.00158.59	8
ATOM	7311	N	ALA	C	488	36.238	129.255	27.109	1.00193.55	7
ATOM	7312	CA	ALA	C	488	34.841	129.689	27.065	1.00194.23	6
ATOM	7313	CB	ALA	C	488	33.970	128.658	26.290	1.00 20.13	6
ATOM	7314	C	ALA	C	488	34.273	129.936	28.462	1.00194.39	6
ATOM	7315	O	ALA	C	488	33.604	129.083	29.042	1.00195.34	8
ATOM	7316	N	ALA	C	489	34.579	131.124	28.981	1.00108.29	7
ATOM	7317	CA	ALA	C	489	34.156	131.609	30.292	1.00107.01	6
ATOM	7318	CB	ALA	C	489	33.173	132.745	30.111	1.00 21.82	6
ATOM	7319	C	ALA	C	489	33.582	130.606	31.281	1.00106.31	6
ATOM	7320	O	ALA	C	489	32.551	130.878	31.894	1.00106.68	8
ATOM	7321	N	ALA	C	490	34.243	129.463	31.447	1.00 94.59	7
ATOM	7322	CA	ALA	C	490	33.788	128.438	32.389	1.00 93.90	6
ATOM	7323	CB	ALA	C	490	33.302	129.098	33.676	1.00 13.87	6
ATOM	7324	C	ALA	C	490	32.699	127.506	31.861	1.00 93.34	6
ATOM	7325	O	ALA	C	490	31.927	127.859	30.972	1.00 95.08	8
ATOM	7326	N	GLU	C	491	32.652	126.307	32.427	1.00 45.09	7
ATOM	7327	CA	GLU	C	491	31.659	125.310	32.067	1.00 43.70	6

ATOM	7328	CB	GLU	C	491	32.324	124.068	31.460	1.00101.46	6
ATOM	7329	CG	GLU	C	491	33.573	123.594	32.195	1.00103.12	6
ATOM	7330	CD	GLU	C	491	34.161	122.314	31.612	1.00103.44	6
ATOM	7331	OE1	GLU	C	491	34.108	122.151	30.374	1.00103.66	8
ATOM	7332	OE2	GLU	C	491	34.688	121.481	32.388	1.00102.72	8
ATOM	7333	C	GLU	C	491	30.978	124.972	33.381	1.00 43.30	6
ATOM	7334	O	GLU	C	491	31.634	124.938	34.422	1.00 43.64	8
ATOM	7335	N	ALA	C	492	29.666	124.749	33.342	1.00 48.24	7
ATOM	7336	CA	ALA	C	492	28.905	124.442	34.553	1.00 47.20	6
ATOM	7337	CB	ALA	C	492	27.734	125.398	34.685	1.00126.11	6
ATOM	7338	C	ALA	C	492	28.410	123.009	34.563	1.00 47.18	6
ATOM	7339	O	ALA	C	492	27.500	122.647	33.813	1.00 47.47	8
ATOM	7340	N	ARG	C	493	29.016	122.210	35.441	1.00 93.61	7
ATOM	7341	CA	ARG	C	493	28.694	120.795	35.582	1.00 93.11	6
ATOM	7342	CB	ARG	C	493	29.323	120.229	36.863	1.00 61.11	6
ATOM	7343	CG	ARG	C	493	30.851	120.303	36.838	1.00 58.90	6
ATOM	7344	CD	ARG	C	493	31.522	119.616	38.026	1.00 57.23	6
ATOM	7345	NE	ARG	C	493	32.980	119.785	37.999	1.00 54.51	7
ATOM	7346	CZ	ARG	C	493	33.820	119.257	38.887	1.00 52.88	6
ATOM	7347	NH1	ARG	C	493	33.363	118.521	39.885	1.00 51.83	7
ATOM	7348	NH2	ARG	C	493	35.123	119.456	38.772	1.00 51.80	7
ATOM	7349	C	ARG	C	493	27.208	120.505	35.547	1.00 93.57	6
ATOM	7350	O	ARG	C	493	26.394	121.260	36.077	1.00 93.81	8
ATOM	7351	N	TYR	C	494	26.880	119.396	34.895	1.00 57.29	7
ATOM	7352	CA	TYR	C	494	25.515	118.926	34.713	1.00 58.47	6
ATOM	7353	CB	TYR	C	494	25.564	117.505	34.177	1.00 80.31	6
ATOM	7354	CG	TYR	C	494	24.221	116.860	33.938	1.00 81.49	6
ATOM	7355	CD1	TYR	C	494	23.343	117.368	32.982	1.00 81.70	6
ATOM	7356	CE1	TYR	C	494	22.156	116.705	32.680	1.00 82.02	6
ATOM	7357	CD2	TYR	C	494	23.870	115.677	34.599	1.00 82.19	6
ATOM	7358	CE2	TYR	C	494	22.689	115.009	34.304	1.00 82.33	6
ATOM	7359	CZ	TYR	C	494	21.844	115.526	33.342	1.00 82.56	6
ATOM	7360	OH	TYR	C	494	20.709	114.845	33.016	1.00 83.98	8
ATOM	7361	C	TYR	C	494	24.619	118.975	35.950	1.00 59.88	6
ATOM	7362	O	TYR	C	494	25.062	118.690	37.073	1.00 60.16	8
ATOM	7363	N	THR	C	495	23.355	119.334	35.706	1.00111.91	7
ATOM	7364	CA	THR	C	495	22.294	119.446	36.711	1.00112.57	6
ATOM	7365	CB	THR	C	495	22.618	118.610	37.978	1.00 98.93	6
ATOM	7366	OG1	THR	C	495	23.125	117.329	37.586	1.00 98.83	8
ATOM	7367	CG2	THR	C	495	21.362	118.385	38.807	1.00 99.57	6
ATOM	7368	C	THR	C	495	21.986	120.904	37.107	1.00113.56	6
ATOM	7369	O								

ATOM	7384	O	ALA	C	498	14.027	125.539	33.622	1.00107.64	8
ATOM	7385	N	ALA	C	499	13.907	123.283	33.433	1.00111.52	7
ATOM	7386	CA	ALA	C	499	13.316	123.259	32.101	1.00111.25	6
ATOM	7387	CB	ALA	C	499	12.043	124.108	32.060	1.00120.72	6
ATOM	7388	C	ALA	C	499	14.327	123.779	31.097	1.00110.44	6
ATOM	7389	O	ALA	C	499	14.990	123.010	30.403	1.00110.80	8
ATOM	7390	N	ASN	C	500	14.451	125.095	31.036	1.00 43.61	7
ATOM	7391	CA	ASN	C	500	15.379	125.717	30.115	1.00 43.08	6
ATOM	7392	CB	ASN	C	500	14.598	126.438	29.010	1.00114.29	6
ATOM	7393	CG	ASN	C	500	13.934	125.480	28.037	1.00115.71	6
ATOM	7394	OD1	ASN	C	500	14.560	125.013	27.087	1.00117.56	8
ATOM	7395	ND2	ASN	C	500	12.662	125.179	28.274	1.00115.42	7
ATOM	7396	C	ASN	C	500	16.288	126.710	30.834	1.00 42.38	6
ATOM	7397	O	ASN	C	500	17.383	127.003	30.362	1.00 41.72	8
ATOM	7398	N	THR	C	501	15.850	127.206	31.988	1.00 58.14	7
ATOM	7399	CA	THR	C	501	16.627	128.206	32.725	1.00 58.92	6
ATOM	7400	CB	THR	C	501	15.698	129.360	33.207	1.00174.72	6
ATOM	7401	OG1	THR	C	501	14.803	129.737	32.152	1.00176.53	8
ATOM	7402	CG2	THR	C	501	16.517	130.580	33.606	1.00175.70	6
ATOM	7403	C	THR	C	501	17.426	127.713	33.940	1.00 57.69	6
ATOM	7404	O	THR	C	501	18.193	128.476	34.537	1.00 56.54	8
ATOM	7405	N	PRO	C	502	17.325	126.418	34.267	1.00 51.85	7
ATOM	7406	CD	PRO	C	502	17.400	125.367	33.236	1.00194.50	6
ATOM	7407	CA	PRO	C	502	18.070	125.961	35.434	1.00 51.22	6
ATOM	7408	CB	PRO	C	502	19.315	125.371	34.802	1.00194.09	6
ATOM	7409	CG	PRO	C	502	18.696	124.601	33.620	1.00194.75	6
ATOM	7410	C	PRO	C	502	18.339	127.023	36.485	1.00 50.18	6
ATOM	7411	O	PRO	C	502	19.440	127.549	36.603	1.00 49.51	8
ATOM	7412	N	ALA	C	503	17.302	127.346	37.242	1.00 83.31	7
ATOM	7413	CA	ALA	C	503	17.443	128.326	38.299	1.00 82.70	6
ATOM	7414	CB	ALA	C	503	16.079	128.700	38.858	1.00157.97	6
ATOM	7415	C	ALA	C	503	18.287	127.646	39.366	1.00 81.70	6
ATOM	7416	O	ALA	C	503	17.863	126.653	39.968	1.00 80.59	8
ATOM	7417	N	ALA	C	504	19.486	128.176	39.587	1.00 61.52	7
ATOM	7418	CA	ALA	C	504	20.387	127.599	40.565	1.00 61.35	6
ATOM	7419	CB	ALA	C	504	21.666	127.154	39.877	1.00150.60	6
ATOM	7420	C	ALA	C	504	20.723	128.532	41.710	1.00 60.28	6
ATOM	7421	O	ALA	C	504	20.310	128.309	42.847	1.00 59.15	8
ATOM	7422	N	GLY	C	505	21.464	129.586	41.391	1.00 89.86	7
ATOM	7423	CA	GLY	C	505	21.901	130.528	42.403	1.00 90.42	6
ATOM	7424	C	GLY	C	505	23.341	130.117	42.636	1.00 90.60	6
ATOM	7425	O	GLY	C	505	24.243	130.940	42.799	1.00 91.07	8
ATOM	7426	N	ASP	C	506	23.544	128.807	42.646	1.00 82.76	7
ATOM	7427	CA	ASP	C	506	24.864	128.229	42.806	1.00 81.90	6
ATOM	7428	CB	ASP	C	506	25.011	127.538	44.159	1.00 67.53	6
ATOM	7429	CG	ASP	C	506	25.609	128.442	45.207	1.00 66.91	6
ATOM	7430	OD1	ASP	C	506	26.570	129.162	44.876	1.00 66.91	8
ATOM	7431	OD2	ASP	C	506	25.132	128.427	46.361	1.00 66.05	8
ATOM	7432	C	ASP	C	506	25.026	127.210	41.694	1.00 81.36	6
ATOM	7433	O	ASP	C	506	24.542	126.082	41.796	1.00 81.62	8
ATOM	7434	N	ARG	C	507	25.683	127.624	40.617	1.00 58.94	7
ATOM	7435	CA	ARG	C	507	25.907	126.735	39.493	1.00 57.88	6
ATOM	7436	CB	ARG	C	507	25.913	127.528	38.176	1.00 68.18	6
ATOM	7437	CG	ARG	C	507	24.603	128.259	37.838	1.00 67.43	6
ATOM	7438	CD	ARG	C	507	23.667	127.447	36.925	1.00 66.82	6
ATOM	7439	NE	ARG	C	507	22.497	128.224	36.484	1.00 66.76	7

ATOM	7440	CZ	ARG	C	507	21.711	127.902	35.452	1.00	66.55	6
ATOM	7441	NH1	ARG	C	507	21.953	126.812	34.740	1.00	67.25	7
ATOM	7442	NH2	ARG	C	507	20.686	128.679	35.114	1.00	66.00	7
ATOM	7443	C	ARG	C	507	27.267	126.094	39.726	1.00	57.63	6
ATOM	7444	O	ARG	C	507	28.287	126.763	39.609	1.00	57.50	8
ATOM	7445	N	ILE	C	508	27.276	124.810	40.084	1.00	61.89	7
ATOM	7446	CA	ILE	C	508	28.528	124.088	40.314	1.00	62.24	6
ATOM	7447	CB	ILE	C	508	28.281	122.634	40.777	1.00	88.29	6
ATOM	7448	CG2	ILE	C	508	29.423	122.182	41.678	1.00	87.84	6
ATOM	7449	CG1	ILE	C	508	26.928	122.516	41.492	1.00	89.46	6
ATOM	7450	CD1	ILE	C	508	26.782	123.365	42.747	1.00	92.22	6
ATOM	7451	C	ILE	C	508	29.201	124.047	38.950	1.00	62.15	6
ATOM	7452	O	ILE	C	508	28.743	123.347	38.046	1.00	62.11	8
ATOM	7453	N	ALA	C	509	30.287	124.791	38.789	1.00	52.75	7
ATOM	7454	CA	ALA	C	509	30.936	124.835	37.490	1.00	53.21	6
ATOM	7455	CB	ALA	C	509	30.547	126.118	36.771	1.00	107.64	6
ATOM	7456	C	ALA	C	509	32.441	124.699	37.515	1.00	53.71	6
ATOM	7457	O	ALA	C	509	33.103	124.973	38.522	1.00	53.78	8
ATOM	7458	N	THR	C	510	32.963	124.276	36.370	1.00	30.63	7
ATOM	7459	CA	THR	C	510	34.387	124.060	36.170	1.00	32.20	6
ATOM	7460	CB	THR	C	510	34.670	122.720	35.398	1.00	79.27	6
ATOM	7461	OG1	THR	C	510	33.839	121.663	35.897	1.00	79.86	8
ATOM	7462	CG2	THR	C	510	36.116	122.308	35.568	1.00	80.57	6
ATOM	7463	C	THR	C	510	34.898	125.202	35.304	1.00	33.62	6
ATOM	7464	O	THR	C	510	34.344	125.480	34.241	1.00	33.24	8
ATOM	7465	N	ASP	C	511	35.938	125.879	35.769	1.00	82.32	7
ATOM	7466	CA	ASP	C	511	36.535	126.947	34.991	1.00	85.09	6
ATOM	7467	CB	ASP	C	511	36.118	128.327	35.514	1.00	169.52	6
ATOM	7468	CG	ASP	C	511	36.831	128.715	36.783	1.00	172.77	6
ATOM	7469	OD1	ASP	C	511	36.832	127.907	37.733	1.00	174.27	8
ATOM	7470	OD2	ASP	C	511	37.384	129.834	36.830	1.00	173.99	8
ATOM	7471	C	ASP	C	511	38.033	126.725	35.116	1.00	86.28	6
ATOM	7472	O	ASP	C	511	38.574	126.629	36.218	1.00	86.46	8
ATOM	7473	N	ARG	C	512	38.688	126.604	33.967	1.00	86.90	7
ATOM	7474	CA	ARG	C	512	40.122	126.357	33.889	1.00	87.82	6
ATOM	7475	CB	ARG	C	512	40.927	127.487	34.541	1.00	96.06	6
ATOM	7476	CG	ARG	C	512	42.398	127.386	34.195	1.00	96.74	6
ATOM	7477	CD	ARG	C	512	43.316	128.011	35.217	1.00	96.67	6
ATOM	7478	NE	ARG	C	512	44.680	127.551	34.979	1.00	96.37	7
ATOM	7479	CZ	ARG	C	512	45.720	127.823	35.757	1.00	96.51	6
ATOM	7480	NH1	ARG	C	512	45.570	128.568	36.843	1.00	97.43	7
ATOM	7481	NH2	ARG	C	512	46.912	127.332	35.451	1.00	95.66	7
ATOM	7482	C	ARG	C	512	40.482	125.039	34.561	1.00	88.16	6
ATOM	7483	O	ARG	C	512	40.539	123.993	33.915	1.00	88.76	8
ATOM	7484	N	ALA	C	513	40.722	125.096	35.865	1.00	141.03	7
ATOM	7485	CA	ALA	C	513	41.086	123.908	36.616	1.00	141.99	6
ATOM	7486	CB	ALA	C	513	42.563	123.963	36.978	1.00	124.59	6
ATOM	7487	C	ALA	C	513	40.242	123.771	37.874	1.00	141.81	6
ATOM	7488	O	ALA	C	513	39.400	122.873	37.972	1.00	141.21	8
ATOM	7489	N	ALA	C	514	40.478	124.663	38.834	1.00	56.61	7
ATOM	7490	CA	ALA	C	514	39.745	124.653	40.094	1.00	56.03	6
ATOM	7491	CB	ALA	C	514	39.916	125.989	40.800	1.00	86.46	6
ATOM	7492	C	ALA	C	514	38.260	124.367	39.871	1.00	56.39	6
ATOM	7493	O	ALA	C	514	37.675	124.770	38.859	1.00	56.05	8
ATOM	7494	N	ALA	C	515	37.662	123.655	40.819	1.00	79.23	7
ATOM	7495	CA	ALA	C	515	36.248	123.320	40.753	1.00	80.00	6

ATOM	7496	CB	ALA	C	515	35.969	122.106	41.635	1.00	13.87	6
ATOM	7497	C	ALA	C	515	35.475	124.530	41.263	1.00	80.71	6
ATOM	7498	O	ALA	C	515	34.437	124.386	41.905	1.00	81.84	8
ATOM	7499	N	ARG	C	516	35.989	125.720	40.960	1.00	51.67	7
ATOM	7500	CA	ARG	C	516	35.402	126.977	41.414	1.00	52.83	6
ATOM	7501	CB	ARG	C	516	35.864	128.127	40.508	1.00	184.59	6
ATOM	7502	CG	ARG	C	516	37.372	128.365	40.645	1.00	186.25	6
ATOM	7503	CD	ARG	C	516	37.860	129.694	40.076	1.00	188.19	6
ATOM	7504	NE	ARG	C	516	39.271	129.915	40.405	1.00	188.67	7
ATOM	7505	CZ	ARG	C	516	39.960	131.008	40.087	1.00	188.92	6
ATOM	7506	NH1	ARG	C	516	39.377	131.999	39.425	1.00	188.66	7
ATOM	7507	NH2	ARG	C	516	41.237	131.113	40.435	1.00	187.95	7
ATOM	7508	C	ARG	C	516	33.892	127.000	41.620	1.00	53.89	6
ATOM	7509	O	ARG	C	516	33.109	126.812	40.684	1.00	53.00	8
ATOM	7510	N	ARG	C	517	33.538	127.218	42.894	1.00	97.04	7
ATOM	7511	CA	ARG	C	517	32.179	127.293	43.460	1.00	99.09	6
ATOM	7512	CB	ARG	C	517	32.102	128.467	44.452	1.00	153.60	6
ATOM	7513	CG	ARG	C	517	30.689	128.839	44.899	1.00	154.88	6
ATOM	7514	CD	ARG	C	517	30.408	128.483	46.359	1.00	156.22	6
ATOM	7515	NE	ARG	C	517	31.052	129.399	47.300	1.00	156.32	7
ATOM	7516	CZ	ARG	C	517	30.759	129.473	48.598	1.00	156.14	6
ATOM	7517	NH1	ARG	C	517	29.827	128.685	49.126	1.00	155.63	7
ATOM	7518	NH2	ARG	C	517	31.397	130.338	49.373	1.00	156.15	7
ATOM	7519	C	ARG	C	517	31.014	127.388	42.501	1.00	99.92	6
ATOM	7520	O	ARG	C	517	30.392	126.388	42.151	1.00	99.19	8
ATOM	7521	N	ALA	C	518	30.710	128.610	42.096	1.00	151.09	7
ATOM	7522	CA	ALA	C	518	29.613	128.841	41.187	1.00	154.07	6
ATOM	7523	CB	ALA	C	518	28.288	128.715	41.932	1.00	16.95	6
ATOM	7524	C	ALA	C	518	29.757	130.227	40.597	1.00	156.60	6
ATOM	7525	O	ALA	C	518	29.198	131.186	41.124	1.00	158.28	8
ATOM	7526	N	GLY	C	519	30.521	130.336	39.513	1.00	153.30	7
ATOM	7527	CA	GLY	C	519	30.706	131.628	38.875	1.00	155.29	6
ATOM	7528	C	GLY	C	519	29.359	132.307	38.758	1.00	156.47	6
ATOM	7529	O	GLY	C	519	29.251	133.535	38.738	1.00	156.88	8
ATOM	7530	N	ALA	C	520	28.327	131.473	38.677	1.00	125.80	7
ATOM	7531	CA	ALA	C	520	26.946	131.917	38.582	1.00	127.15	6
ATOM	7532	CB	ALA	C	520	26.489	132.455	39.933	1.00	108.64	6
ATOM	7533	C	ALA	C	520	26.659	132.950	37.494	1.00	128.57	6
ATOM	7534	O	ALA	C	520	25.733	133.753	37.644	1.00	129.26	8
ATOM	7535	N	PRO	C	521	27.425	132.9				

ATOM	7552	N	ALA	C	524	21.728	132.410	31.702	1.00120.70	7
ATOM	7553	CA	ALA	C	524	20.631	131.582	31.208	1.00120.84	6
ATOM	7554	CB	ALA	C	524	19.303	132.271	31.483	1.00194.26	6
ATOM	7555	C	ALA	C	524	20.788	131.299	29.713	1.00120.68	6
ATOM	7556	O	ALA	C	524	21.040	130.160	29.309	1.00120.75	8
ATOM	7557	N	ALA	C	525	20.609	132.336	28.898	1.00141.28	7
ATOM	7558	CA	ALA	C	525	20.779	132.240	27.452	1.00140.31	6
ATOM	7559	CB	ALA	C	525	20.321	133.532	26.791	1.00135.97	6
ATOM	7560	C	ALA	C	525	22.287	132.059	27.307	1.00139.91	6
ATOM	7561	O	ALA	C	525	23.009	132.243	28.287	1.00139.53	8
ATOM	7562	N	PRO	C	526	22.788	131.771	26.089	1.00159.42	7
ATOM	7563	CD	PRO	C	526	22.311	132.434	24.863	1.00208.87	6
ATOM	7564	CA	PRO	C	526	24.231	131.581	25.970	1.00159.07	6
ATOM	7565	CB	PRO	C	526	24.677	132.935	25.461	1.00208.87	6
ATOM	7566	CG	PRO	C	526	23.575	133.212	24.394	1.00208.87	6
ATOM	7567	C	PRO	C	526	24.881	131.136	27.273	1.00158.57	6
ATOM	7568	O	PRO	C	526	25.861	131.715	27.732	1.00159.08	8
ATOM	7569	N	ALA	C	527	24.287	130.095	27.854	1.00119.34	7
ATOM	7570	CA	ALA	C	527	24.705	129.485	29.113	1.00118.20	6
ATOM	7571	CB	ALA	C	527	24.608	127.986	28.990	1.00 51.31	6
ATOM	7572	C	ALA	C	527	26.107	129.872	29.563	1.00117.87	6
ATOM	7573	O	ALA	C	527	27.074	129.546	28.881	1.00118.65	8
ATOM	7574	N	ALA	C	528	26.206	130.545	30.714	1.00187.90	7
ATOM	7575	CA	ALA	C	528	27.488	130.992	31.273	1.00186.63	6
ATOM	7576	CB	ALA	C	528	27.687	130.398	32.677	1.00 25.37	6
ATOM	7577	C	ALA	C	528	28.638	130.583	30.358	1.00186.26	6
ATOM	7578	O	ALA	C	528	29.355	129.626	30.646	1.00186.75	8
ATOM	7579	N	ALA	C	529	28.798	131.312	29.254	1.00208.87	7
ATOM	7580	CA	ALA	C	529	29.829	131.018	28.259	1.00208.87	6
ATOM	7581	CB	ALA	C	529	31.159	130.779	28.936	1.00108.91	6
ATOM	7582	C	ALA	C	529	29.386	129.768	27.498	1.00208.87	6
ATOM	7583	O	ALA	C	529	28.406	129.810	26.756	1.00208.87	8
ATOM	7584	N	ALA	C	530	30.106	128.663	27.676	1.00 84.61	7
ATOM	7585	CA	ALA	C	530	29.747	127.402	27.033	1.00 80.94	6
ATOM	7586	CB	ALA	C	530	30.852	126.936	26.058	1.00 32.73	6
ATOM	7587	C	ALA	C	530	29.536	126.378	28.146	1.00 78.57	6
ATOM	7588	O	ALA	C	530	29.626	125.177	27.918	1.00 78.56	8
ATOM	7589	N	ALA	C	531	29.252	126.877	29.351	1.00 55.15	7
ATOM	7590	CA	ALA	C	531	29.011	126.049	30.535	1.00 52.08	6
ATOM	7591	CB	ALA	C	531	28.402	126.892	31.633	1.00 68.22	6
ATOM	7592	C	ALA	C	531	28.098	124.878	30.236	1.00 50.47	6
ATOM	7593	O	ALA	C	531	27.437	124.863	29.208	1.00 50.11	8
ATOM	7594	N	MET	C	532	28.050	123.911	31.147	1.00 83.34	7
ATOM	7595	CA	MET	C	532	27.218	122.716	30.980	1.00 82.40	6
ATOM	7596	CB	MET	C	532	25.903	123.054	30.258	1.00107.38	6
ATOM	7597	CG	MET	C	532	24.800	123.637	31.124	1.00108.62	6
ATOM	7598	SD	MET	C	532	23.914	122.374	32.061	1.00111.01	16
ATOM	7599	CE	MET	C	532	22.767	121.732	30.820	1.00108.74	6
ATOM	7600	C	MET	C	532	27.920	121.596	30.205	1.00 80.11	6
ATOM	7601	O	MET	C	532	28.729	121.845	29.304	1.00 79.97	8
ATOM	7602	N	ASP	C	533	27.597	120.358	30.561	1.00 45.22	7
ATOM	7603	CA	ASP	C	533	28.167	119.201	29.894	1.00 42.94	6
ATOM	7604	CB	ASP	C	533	29.153	118.488	30.815	1.00118.04	6
ATOM	7605	CG	ASP	C	533	30.377	119.314	31.092	1.00119.82	6
ATOM	7606	OD1	ASP	C	533	30.962	119.851	30.126	1.00120.83	8
ATOM	7607	OD2	ASP	C	533	30.758	119.421	32.274	1.00120.99	8

ATOM	7608	C	ASP	C	533	27.080	118.227	29.470	1.00	40.69	6
ATOM	7609	O	ASP	C	533	26.354	117.706	30.304	1.00	39.20	8
ATOM	7610	N	VAL	C	534	26.965	117.987	28.170	1.00	45.56	7
ATOM	7611	CA	VAL	C	534	25.972	117.052	27.673	1.00	43.30	6
ATOM	7612	CB	VAL	C	534	26.208	116.733	26.180	1.00	56.00	6
ATOM	7613	CG1	VAL	C	534	24.884	116.584	25.472	1.00	57.40	6
ATOM	7614	CG2	VAL	C	534	27.060	117.801	25.536	1.00	55.70	6
ATOM	7615	C	VAL	C	534	26.176	115.768	28.479	1.00	41.63	6
ATOM	7616	O	VAL	C	534	27.102	115.012	28.200	1.00	42.30	8
ATOM	7617	N	SER	C	535	25.336	115.516	29.480	1.00	31.85	7
ATOM	7618	CA	SER	C	535	25.480	114.314	30.315	1.00	30.44	6
ATOM	7619	CB	SER	C	535	25.198	113.049	29.505	1.00	52.78	6
ATOM	7620	OG	SER	C	535	23.802	112.782	29.432	1.00	53.48	8
ATOM	7621	C	SER	C	535	26.837	114.172	30.991	1.00	29.50	6
ATOM	7622	O	SER	C	535	27.797	114.846	30.651	1.00	29.54	8
ATOM	7623	N	PRO	C	536	26.920	113.298	31.985	1.00	57.81	7
ATOM	7624	CD	PRO	C	536	25.784	112.903	32.819	1.00	35.93	6
ATOM	7625	CA	PRO	C	536	28.163	113.074	32.709	1.00	57.22	6
ATOM	7626	CB	PRO	C	536	27.685	112.636	34.082	1.00	35.52	6
ATOM	7627	CG	PRO	C	536	26.313	113.204	34.175	1.00	35.98	6
ATOM	7628	C	PRO	C	536	29.005	112.003	32.058	1.00	57.09	6
ATOM	7629	O	PRO	C	536	30.212	111.962	32.257	1.00	58.55	8
ATOM	7630	N	LYS	C	537	28.365	111.127	31.294	1.00	66.52	7
ATOM	7631	CA	LYS	C	537	29.072	110.045	30.620	1.00	64.77	6
ATOM	7632	CB	LYS	C	537	28.204	109.472	29.504	1.00	67.06	6
ATOM	7633	CG	LYS	C	537	26.778	109.233	29.915	1.00	69.21	6
ATOM	7634	CD	LYS	C	537	25.935	108.782	28.744	1.00	71.51	6
ATOM	7635	CE	LYS	C	537	24.456	108.743	29.123	1.00	73.76	6
ATOM	7636	NZ	LYS	C	537	24.158	107.832	30.274	1.00	76.52	7
ATOM	7637	C	LYS	C	537	30.382	110.539	30.018	1.00	63.46	6
ATOM	7638	O	LYS	C	537	31.406	109.853	30.085	1.00	65.23	8
ATOM	7639	N	GLN	C	538	30.340	111.738	29.443	1.00	14.62	7
ATOM	7640	CA	GLN	C	538	31.497	112.314	28.794	1.00	13.87	6
ATOM	7641	CB	GLN	C	538	31.140	113.679	28.237	1.00	29.72	6
ATOM	7642	CG	GLN	C	538	30.595	114.627	29.268	1.00	28.74	6
ATOM	7643	CD	GLN	C	538	30.412	116.020	28.710	1.00	26.62	6
ATOM	7644	OE1	GLN	C	538	31.361	116.639	28.232	1.00	26.40	8
ATOM	7645	NE2	GLN	C	538	29.189	116.522	28.766	1.00	25.10	7
ATOM	7646	C	GLN	C	538	32.741	112.413	29.669	1.00	13.87	6
ATOM	7647	O	GLN	C	538	33.836	112.658	29.175	1.00	14.40	8
ATOM	7648	N	VAL	C	539	32.598	112.238	30.969	1.00	61.78	7
ATOM	7649	CA	VAL	C	539	33.766	112.294	31.827	1.00	62.62	6
ATOM	7650	CB	VAL	C	539	33.397	112.686	33.274	1.00	42.82	6
ATOM	7651	CG1	VAL	C	539	34.640	112.726	34.142	1.00	43.04	6
ATOM	7652	CG2	VAL	C	539	32.720	114.012	33.289	1.00	43.33	6
ATOM	7653	C	VAL	C	539	34.295	110.878	31.857	1.00	64.28	6
ATOM	7654	O	VAL	C	539	35.237	110.578	32.583	1.00	67.03	8
ATOM	7655	N	PHE	C	540	33.697	109.997	31.064	1.00	55.62	7
ATOM	7656	CA	PHE	C	540	34.122	108.617	31.128	1.00	55.60	6
ATOM	7657	CB	PHE	C	540	33.207	107.879	32.120	1.00	28.30	6
ATOM	7658	CG	PHE	C	540	33.315	108.391	33.538	1.00	24.65	6
ATOM	7659	CD1	PHE	C	540	32.633	109.518	33.935	1.00	22.13	6
ATOM	7660	CD2	PHE	C	540	34.169	107.797	34.439	1.00	25.34	6
ATOM	7661	CE1	PHE	C	540	32.809	110.044	35.188	1.00	22.70	6
ATOM	7662	CE2	PHE	C	540	34.344	108.325	35.697	1.00	26.61	6
ATOM	7663	CZ	PHE	C	540	33.665	109.448	36.067	1.00	25.32	6

ATOM	7664	C	PHE	C	540	34.271	107.803	29.846	1.00	56.85	6
ATOM	7665	O	PHE	C	540	33.837	108.214	28.764	1.00	57.37	8
ATOM	7666	N	SER	C	541	34.913	106.641	30.009	1.00	50.86	7
ATOM	7667	CA	SER	C	541	35.186	105.669	28.952	1.00	49.99	6
ATOM	7668	CB	SER	C	541	36.327	104.781	29.393	1.00	61.30	6
ATOM	7669	OG	SER	C	541	36.199	104.522	30.780	1.00	65.14	8
ATOM	7670	C	SER	C	541	33.971	104.800	28.664	1.00	48.71	6
ATOM	7671	O	SER	C	541	33.198	104.473	29.563	1.00	48.33	8
ATOM	7672	N	LEU	C	542	33.835	104.389	27.409	1.00	55.24	7
ATOM	7673	CA	LEU	C	542	32.697	103.590	26.976	1.00	53.98	6
ATOM	7674	CB	LEU	C	542	32.870	103.132	25.533	1.00	17.92	6
ATOM	7675	CG	LEU	C	542	31.622	102.457	24.973	1.00	15.59	6
ATOM	7676	CD1	LEU	C	542	30.413	103.338	25.206	1.00	15.21	6
ATOM	7677	CD2	LEU	C	542	31.804	102.196	23.501	1.00	15.84	6
ATOM	7678	C	LEU	C	542	32.334	102.386	27.811	1.00	54.34	6
ATOM	7679	O	LEU	C	542	31.156	102.131	28.010	1.00	55.12	8
ATOM	7680	N	ASN	C	543	33.309	101.622	28.291	1.00	39.01	7
ATOM	7681	CA	ASN	C	543	32.926	100.467	29.086	1.00	39.30	6
ATOM	7682	CB	ASN	C	543	33.774	99.207	28.743	1.00	35.95	6
ATOM	7683	CG	ASN	C	543	35.259	99.387	28.936	1.00	36.82	6
ATOM	7684	OD1	ASN	C	543	35.756	100.492	29.145	1.00	37.92	8
ATOM	7685	ND2	ASN	C	543	35.985	98.284	28.844	1.00	35.25	7
ATOM	7686	C	ASN	C	543	32.826	100.718	30.583	1.00	38.44	6
ATOM	7687	O	ASN	C	543	32.380	99.850	31.331	1.00	39.50	8
ATOM	7688	N	THR	C	544	33.211	101.905	31.034	1.00	57.02	7
ATOM	7689	CA	THR	C	544	33.058	102.184	32.451	1.00	56.20	6
ATOM	7690	CB	THR	C	544	33.889	103.384	32.944	1.00	23.10	6
ATOM	7691	OG1	THR	C	544	35.242	102.966	33.159	1.00	21.43	8
ATOM	7692	CG2	THR	C	544	33.332	103.924	34.261	1.00	20.88	6
ATOM	7693	C	THR	C	544	31.601	102.529	32.580	1.00	57.34	6
ATOM	7694	O	THR	C	544	30.917	102.020	33.457	1.00	57.84	8
ATOM	7695	N	ASN	C	545	31.117	103.374	31.678	1.00	42.11	7
ATOM	7696	CA	ASN	C	545	29.720	103.776	31.713	1.00	43.29	6
ATOM	7697	CB	ASN	C	545	29.273	104.314	30.353	1.00	52.15	6
ATOM	7698	CG	ASN	C	545	29.957	105.617	29.977	1.00	53.97	6
ATOM	7699	OD1	ASN	C	545	29.700	106.662	30.566	1.00	54.69	8
ATOM	7700	ND2	ASN	C	545	30.835	105.556	28.988	1.00	54.19	7
ATOM	7701	C	ASN	C	545	28.845	102.592	32.091	1.00	44.50	6
ATOM	7702	O	ASN	C	545	27.907	102.731	32.870	1.00	46.05	8
ATOM	7703	N	LEU	C	546	29.179	101.420	31.561	1.00	60.59	7
ATOM	7704	CA	LEU	C	546	28.403	100.213	31.812	1.00	60.11	6
ATOM	7705	CB	LEU	C	546	28.992	99.035	31.020	1.00	37.83	6
ATOM	7706	CG	LEU	C	546	29.088	99.200	29.493	1.00	37.99	6
ATOM	7707	CD1	LEU	C	546	29.306	97.862	28.830	1.00	37.92	6
ATOM	7708	CD2	LEU	C	546	27.821	99.807	28.958	1.00	37.51	6
ATOM	7709	C	LEU	C	546	28.232	99.818	33.274	1.00	59.65	6
ATOM	7710	O	LEU	C	546	27.836	98.693	33.558	1.00	61.57	8
ATOM	7711	N	ILE	C	547	28.512	100.738	34.195	1.00	28.92	7
ATOM	7712	CA	ILE	C	547	28.377	100.475	35.637	1.00	27.88	6
ATOM	7713	CB	ILE	C	547	29.623	100.935	36.422	1.00	54.96	6
ATOM	7714	CG2	ILE	C	547	29.344	100.847	37.900	1.00	56.07	6
ATOM	7715	CG1	ILE	C	547	30.831	100.062	36.074	1.00	54.53	6
ATOM	7716	CD1	ILE	C	547	32.127	100.537	36.711	1.00	53.36	6
ATOM	7717	C	ILE	C	547	27.160	101.205	36.211	1.00	26.96	6
ATOM	7718	O	ILE	C	547	27.216	102.399	36.485	1.00	25.95	8
ATOM	7719	N	PRO	C	548	26.065	100.473	36.451	1.00	55.58	7



ATOM	7720	CD	PRO	C	548	26.037	99.021	36.671	1.00	35.60	6
ATOM	7721	CA	PRO	C	548	24.846	101.063	36.977	1.00	55.04	6
ATOM	7722	CB	PRO	C	548	23.954	99.849	37.190	1.00	33.94	6
ATOM	7723	CG	PRO	C	548	24.900	98.866	37.658	1.00	34.54	6
ATOM	7724	C	PRO	C	548	25.049	101.897	38.222	1.00	55.38	6
ATOM	7725	O	PRO	C	548	24.279	102.819	38.473	1.00	57.14	8
ATOM	7726	N	PHE	C	549	26.061	101.611	39.022	1.00	32.51	7
ATOM	7727	CA	PHE	C	549	26.220	102.467	40.191	1.00	33.20	6
ATOM	7728	CB	PHE	C	549	25.645	101.798	41.446	1.00	27.42	6
ATOM	7729	CG	PHE	C	549	24.130	101.793	41.503	1.00	24.30	6
ATOM	7730	CD1	PHE	C	549	23.387	100.840	40.798	1.00	23.85	6
ATOM	7731	CD2	PHE	C	549	23.449	102.708	42.295	1.00	22.95	6
ATOM	7732	CE1	PHE	C	549	21.989	100.795	40.889	1.00	22.47	6
ATOM	7733	CE2	PHE	C	549	22.058	102.665	42.387	1.00	23.27	6
ATOM	7734	CZ	PHE	C	549	21.331	101.704	41.682	1.00	22.31	6
ATOM	7735	C	PHE	C	549	27.650	102.941	40.445	1.00	33.28	6
ATOM	7736	O	PHE	C	549	28.181	102.811	41.549	1.00	33.61	8
ATOM	7737	N	LEU	C	550	28.252	103.525	39.412	1.00	29.32	7
ATOM	7738	CA	LEU	C	550	29.619	104.025	39.485	1.00	29.00	6
ATOM	7739	CB	LEU	C	550	30.009	104.696	38.156	1.00	46.50	6
ATOM	7740	CG	LEU	C	550	31.458	105.140	37.930	1.00	45.08	6
ATOM	7741	CD1	LEU	C	550	32.372	103.940	37.982	1.00	46.72	6
ATOM	7742	CD2	LEU	C	550	31.594	105.833	36.586	1.00	43.39	6
ATOM	7743	C	LEU	C	550	29.723	105.018	40.621	1.00	29.29	6
ATOM	7744	O	LEU	C	550	30.572	104.864	41.492	1.00	27.19	8
ATOM	7745	N	GLU	C	551	28.842	106.019	40.613	1.00	28.00	7
ATOM	7746	CA	GLU	C	551	28.824	107.078	41.627	1.00	30.78	6
ATOM	7747	CB	GLU	C	551	27.403	107.611	41.844	1.00	103.26	6
ATOM	7748	CG	GLU	C	551	26.502	107.570	40.629	1.00	106.00	6
ATOM	7749	CD	GLU	C	551	25.687	106.302	40.575	1.00	108.97	6
ATOM	7750	OE1	GLU	C	551	26.287	105.213	40.571	1.00	108.75	8
ATOM	7751	OE2	GLU	C	551	24.443	106.392	40.544	1.00	110.84	8
ATOM	7752	C	GLU	C	551	29.395	106.666	42.978	1.00	31.42	6
ATOM	7753	O	GLU	C	551	30.171	107.403	43.564	1.00	31.29	8
ATOM	7754	N	HIS	C	552	29.010	105.491	43.466	1.00	50.43	7
ATOM	7755	CA	HIS	C	552	29.490	105.001	44.754	1.00	51.46	6
ATOM	7756	CB	HIS	C	552	28.470	104.047	45.341	1.00	54.12	6
ATOM	7757	CG	HIS	C	552	27.067	104.544	45.220	1.00	54.38	6
ATOM	7758	CD2	HIS	C	552	26.123	104.312	44.276	1.00	55.28	6
ATOM	7759	ND1	HIS	C	552	26.505	105.428	46.115	1.00	54.20	7
ATOM	7760	CE1	HIS	C	552	25.274	105.715	45.728	1.00	55.46	6
ATOM	7761	NE2	HIS	C	552	25.019	105.054	44.614	1.00	55.94	7
ATOM	7762	C	HIS	C	552	30.830	104.306	44.599	1.00	51.10	6
ATOM	7763	O	HIS	C	552	31.788	104.632	45.288	1.00	53.17	8
ATOM	7764	N	ASP	C	553	30.893	103.337	43.701	1.00	52.36	7
ATOM	7765	CA	ASP	C	553	32.134	102.629	43.435	1.00	51.21	6
ATOM	7766	CB	ASP	C	553	32.087	102.026	42.036	1.00	32.32	6
ATOM	7767	CG	ASP	C	553	31.310	100.750	41.982	1.00	32.47	6
ATOM	7768	OD1	ASP	C	553	30.513	100.478	42.896	1.00	33.28	8
ATOM	7769	OD2	ASP	C	553	31.498	100.017	41.006	1.00	31.58	8
ATOM	7770	C	ASP	C	553	33.331	103.576	43.504	1.00	50.90	6
ATOM	7771	O	ASP	C	553	33.383	104.580	42.786	1.00	51.83	8
ATOM	7772	N	ASP	C	554	34.290	103.251	44.367	1.00	33.65	7
ATOM	7773	CA	ASP	C	554	35.501	104.050	44.509	1.00	31.93	6
ATOM	7774	CB	ASP	C	554	36.383	103.475	45.612	1.00	68.27	6
ATOM	7775	CG	ASP	C	554	37.684	104.218	45.756	1.00	72.84	6

ATOM	7776	OD1	ASP	C	554	38.411	104.320	44.749	1.00	73.81	8
ATOM	7777	OD2	ASP	C	554	37.984	104.697	46.872	1.00	76.46	8
ATOM	7778	C	ASP	C	554	36.224	103.971	43.181	1.00	30.26	6
ATOM	7779	O	ASP	C	554	36.417	102.881	42.639	1.00	29.04	8
ATOM	7780	N	ALA	C	555	36.608	105.130	42.653	1.00	44.51	7
ATOM	7781	CA	ALA	C	555	37.301	105.204	41.370	1.00	42.66	6
ATOM	7782	CB	ALA	C	555	38.172	106.459	41.315	1.00	29.64	6
ATOM	7783	C	ALA	C	555	38.146	103.956	41.128	1.00	41.50	6
ATOM	7784	O	ALA	C	555	37.787	103.107	40.318	1.00	41.76	8
ATOM	7785	N	ASN	C	556	39.254	103.842	41.853	1.00	29.75	7
ATOM	7786	CA	ASN	C	556	40.163	102.705	41.735	1.00	29.63	6
ATOM	7787	CB	ASN	C	556	41.039	102.614	42.984	1.00	56.62	6
ATOM	7788	CG	ASN	C	556	42.286	101.789	42.758	1.00	57.90	6
ATOM	7789	OD1	ASN	C	556	42.215	100.622	42.368	1.00	58.43	8
ATOM	7790	ND2	ASN	C	556	43.443	102.395	43.000	1.00	57.43	7
ATOM	7791	C	ASN	C	556	39.482	101.351	41.500	1.00	27.87	6
ATOM	7792	O	ASN	C	556	39.574	100.778	40.417	1.00	26.94	8
ATOM	7793	N	ARG	C	557	38.807	100.831	42.515	1.00	65.96	7
ATOM	7794	CA	ARG	C	557	38.147	99.544	42.367	1.00	64.43	6
ATOM	7795	CB	ARG	C	557	37.297	99.222	43.582	1.00	26.99	6
ATOM	7796	CG	ARG	C	557	37.075	97.758	43.729	1.00	24.27	6
ATOM	7797	CD	ARG	C	557	38.387	97.118	44.108	1.00	22.59	6
ATOM	7798	NE	ARG	C	557	38.365	95.665	44.016	1.00	22.25	7
ATOM	7799	CZ	ARG	C	557	39.348	94.890	44.455	1.00	22.39	6
ATOM	7800	NH1	ARG	C	557	40.414	95.442	45.019	1.00	22.25	7
ATOM	7801	NH2	ARG	C	557	39.283	93.573	44.309	1.00	22.91	7
ATOM	7802	C	ARG	C	557	37.253	99.524	41.144	1.00	64.64	6
ATOM	7803	O	ARG	C	557	37.111	98.495	40.491	1.00	66.31	8
ATOM	7804	N	ALA	C	558	36.634	100.661	40.847	1.00	19.66	7
ATOM	7805	CA	ALA	C	558	35.756	100.756	39.690	1.00	18.12	6
ATOM	7806	CB	ALA	C	558	35.153	102.159	39.615	1.00	46.30	6
ATOM	7807	C	ALA	C	558	36.490	100.413	38.380	1.00	17.77	6
ATOM	7808	O	ALA	C	558	35.847	100.003	37.411	1.00	15.92	8
ATOM	7809	N	LEU	C	559	37.824	100.579	38.358	1.00	13.87	7
ATOM	7810	CA	LEU	C	559	38.633	100.284	37.167	1.00	13.87	6
ATOM	7811	CB	LEU	C	559	40.013	100.986	37.209	1.00	13.87	6
ATOM	7812	CG	LEU	C	559	41.269	100.503	37.978	1.00	14.77	6
ATOM	7813	CD1	LEU	C	559	41.522	99.032	37.759	1.00	14.05	6
ATOM	7814	CD2	LEU	C	559	42.504	101.289	37.513	1.00	13.87	6
ATOM	7815	C	LEU	C	559	38.822	98.781	37.046	1.00	13.87	6
ATOM	7816	O	LEU	C	559	39.047	98.256	35.960	1.00	15.26	8
ATOM	7817	N	MET	C	560	38.754	98.082	38.171	1.00	13.87	7
ATOM	7818	CA	MET	C	560	38.890	96.637	38.140	1.00	13.87	6
ATOM	7819	CB	MET	C	560	39.149	96.092	39.532	1.00	24.02	6
ATOM	7820	CG	MET	C	560	40.602	95.859	39.795	1.00	24.05	6
ATOM	7821	SD	MET	C	560	40.804	95.282	41.440	1.00	24.44	16
ATOM	7822	CE	MET	C	560	41.402	96.799	42.230	1.00	24.05	6
ATOM	7823	C	MET	C	560	37.625	96.021	37.576	1.00	13.87	6
ATOM	7824	O	MET	C	560	37.547	94.817	37.365	1.00	13.87	8
ATOM	7825	N	GLY	C	561	36.627	96.862	37.350	1.00	28.68	7
ATOM	7826	CA	GLY	C	561	35.384	96.393	36.781	1.00	29.22	6
ATOM	7827	C	GLY	C	561	35.362	96.946	35.375	1.00	30.05	6
ATOM	7828	O	GLY	C	561	35.040	96.258	34.413	1.00	30.74	8
ATOM	7829	N	SER	C	562	35.710	98.216	35.258	1.00	21.52	7
ATOM	7830	CA	SER	C	562	35.746	98.842	33.965	1.00	23.76	6
ATOM	7831	CB	SER	C	562	36.439	100.197	34.076	1.00	50.05	6

ATOM	7832	OG	SER	C	562	36.642	100.776	32.800	1.00	54.47	8
ATOM	7833	C	SER	C	562	36.522	97.901	33.041	1.00	23.13	6
ATOM	7834	O	SER	C	562	36.001	97.465	32.014	1.00	23.33	8
ATOM	7835	N	ASN	C	563	37.753	97.563	33.423	1.00	14.06	7
ATOM	7836	CA	ASN	C	563	38.593	96.674	32.617	1.00	14.75	6
ATOM	7837	CB	ASN	C	563	40.015	96.557	33.186	1.00	59.25	6
ATOM	7838	CG	ASN	C	563	40.754	97.873	33.222	1.00	63.28	6
ATOM	7839	OD1	ASN	C	563	40.354	98.848	32.588	1.00	67.18	8
ATOM	7840	ND2	ASN	C	563	41.857	97.902	33.959	1.00	63.33	7
ATOM	7841	C	ASN	C	563	38.006	95.285	32.598	1.00	13.87	6
ATOM	7842	O	ASN	C	563	37.452	94.842	31.617	1.00	13.87	8
ATOM	7843	N	MET	C	564	38.161	94.606	33.716	1.00	17.31	7
ATOM	7844	CA	MET	C	564	37.688	93.262	33.895	1.00	16.52	6
ATOM	7845	CB	MET	C	564	37.319	93.087	35.333	1.00	26.95	6
ATOM	7846	CG	MET	C	564	36.910	91.729	35.687	1.00	28.06	6
ATOM	7847	SD	MET	C	564	36.957	91.733	37.424	1.00	31.38	16
ATOM	7848	CE	MET	C	564	38.697	91.983	37.652	1.00	32.35	6
ATOM	7849	C	MET	C	564	36.507	92.920	33.032	1.00	16.05	6
ATOM	7850	O	MET	C	564	36.483	91.892	32.381	1.00	16.44	8
ATOM	7851	N	GLN	C	565	35.509	93.778	33.045	1.00	26.07	7
ATOM	7852	CA	GLN	C	565	34.311	93.569	32.253	1.00	26.11	6
ATOM	7853	CB	GLN	C	565	33.591	94.916	32.178	1.00	18.22	6
ATOM	7854	CG	GLN	C	565	32.342	94.971	31.365	1.00	19.82	6
ATOM	7855	CD	GLN	C	565	31.359	95.923	31.975	1.00	20.65	6
ATOM	7856	OE1	GLN	C	565	31.736	96.987	32.462	1.00	19.74	8
ATOM	7857	NE2	GLN	C	565	30.086	95.551	31.956	1.00	20.72	7
ATOM	7858	C	GLN	C	565	34.670	93.011	30.859	1.00	25.51	6
ATOM	7859	O	GLN	C	565	34.077	92.049	30.383	1.00	24.62	8
ATOM	7860	N	THR	C	566	35.677	93.612	30.235	1.00	24.10	7
ATOM	7861	CA	THR	C	566	36.160	93.219	28.909	1.00	23.98	6
ATOM	7862	CB	THR	C	566	37.506	93.906	28.548	1.00	20.36	6
ATOM	7863	OG1	THR	C	566	37.422	95.326	28.720	1.00	20.36	8
ATOM	7864	CG2	THR	C	566	37.856	93.608	27.122	1.00	20.36	6
ATOM	7865	C	THR	C	566	36.435	91.731	28.805	1.00	24.17	6
ATOM	7866	O	THR	C	566	36.010	91.071	27.870	1.00	24.04	8
ATOM	7867	N	GLN	C	567	37.187	91.226	29.769	1.00	13.87	7
ATOM	7868	CA	GLN	C	567	37.573	89.834	29.809	1.00	13.87	6
ATOM	7869	CB	GLN	C	567	38.576	89.630	30.941	1.00	44.07	6
ATOM	7870	CG	GLN	C	567	39.702	90.652	30.918	1.00	47.21	6
ATOM	7871	CD	GLN	C	567	40.555	90.643	32.173	1.00	49.95	6
ATOM	7872	OE1	GLN	C	567	40.059	90.818	33.285	1.00	50.29	8
ATOM	7873	NE2	GLN	C	567	41.852	90.451	31.996	1.00	51.77	7
ATOM	7874	C	GLN	C	567	36.394	88.894	29.967	1.00	13.87	6
ATOM	7875	O	GLN	C	567	36.579	87.756	30.369	1.00	13.87	8
ATOM	7876	N	ALA	C	568	35.194	89.381	29.644	1.00	28.36	7
ATOM	7877	CA	ALA	C	568	33.937	88.620	29.728	1.00	28.85	6
ATOM	7878	CB	ALA	C	568	32.827	89.392	29.043	1.00	75.57	6
ATOM	7879	C	ALA	C	568	34.004	87.207	29.148	1.00	31.00	6
ATOM	7880	O	ALA	C	568	34.664	86.351	29.715	1.00	32.02	8
ATOM	7881	N	VAL	C	569	33.305	86.974	28.033	1.00	22.44	7
ATOM	7882	CA	VAL	C	569	33.259	85.672	27.332	1.00	24.38	6
ATOM	7883	CB	VAL	C	569	34.054	84.547	28.049	1.00	38.29	6
ATOM	7884	CG1	VAL	C	569	33.295	84.039	29.253	1.00	39.66	6
ATOM	7885	CG2	VAL	C	569	34.321	83.413	27.085	1.00	39.89	6
ATOM	7886	C	VAL	C	569	31.831	85.164	27.129	1.00	25.75	6
ATOM	7887	O	VAL	C	569	31.252	84.512	27.996	1.00	25.33	8

ATOM	7888	N	PRO	C	570	31.265	85.427	25.948	1.00	29.95	7
ATOM	7889	CD	PRO	C	570	32.055	85.698	24.740	1.00	50.59	6
ATOM	7890	CA	PRO	C	570	29.908	85.027	25.579	1.00	31.13	6
ATOM	7891	CB	PRO	C	570	29.953	85.013	24.055	1.00	50.91	6
ATOM	7892	CG	PRO	C	570	31.394	84.798	23.750	1.00	50.20	6
ATOM	7893	C	PRO	C	570	29.480	83.694	26.138	1.00	31.83	6
ATOM	7894	O	PRO	C	570	30.207	82.707	26.024	1.00	31.32	8
ATOM	7895	N	LEU	C	571	28.292	83.686	26.736	1.00	31.25	7
ATOM	7896	CA	LEU	C	571	27.708	82.487	27.320	1.00	32.79	6
ATOM	7897	CB	LEU	C	571	27.247	82.729	28.764	1.00	13.87	6
ATOM	7898	CG	LEU	C	571	28.097	83.181	29.952	1.00	13.87	6
ATOM	7899	CD1	LEU	C	571	28.730	84.518	29.670	1.00	13.87	6
ATOM	7900	CD2	LEU	C	571	27.205	83.294	31.181	1.00	13.87	6
ATOM	7901	C	LEU	C	571	26.469	82.104	26.510	1.00	36.27	6
ATOM	7902	O	LEU	C	571	26.038	82.839	25.613	1.00	35.73	8
ATOM	7903	N	ILE	C	572	25.907	80.947	26.851	1.00	37.31	7
ATOM	7904	CA	ILE	C	572	24.691	80.430	26.233	1.00	40.16	6
ATOM	7905	CB	ILE	C	572	24.666	78.898	26.248	1.00	48.31	6
ATOM	7906	CG2	ILE	C	572	23.847	78.371	25.105	1.00	49.64	6
ATOM	7907	CG1	ILE	C	572	26.078	78.357	26.099	1.00	50.85	6
ATOM	7908	CD1	ILE	C	572	26.167	76.917	26.439	1.00	53.55	6
ATOM	7909	C	ILE	C	572	23.626	80.906	27.206	1.00	42.12	6
ATOM	7910	O	ILE	C	572	23.315	80.207	28.175	1.00	44.93	8
ATOM	7911	N	ARG	C	573	23.090	82.097	26.952	1.00	47.21	7
ATOM	7912	CA	ARG	C	573	22.064	82.732	27.791	1.00	48.00	6
ATOM	7913	CB	ARG	C	573	21.563	81.804	28.904	1.00	177.52	6
ATOM	7914	CG	ARG	C	573	20.346	80.973	28.541	1.00	182.92	6
ATOM	7915	CD	ARG	C	573	20.107	79.866	29.558	1.00	188.88	6
ATOM	7916	NE	ARG	C	573	18.780	79.269	29.433	1.00	196.42	7
ATOM	7917	CZ	ARG	C	573	18.253	78.823	28.295	1.00	201.00	6
ATOM	7918	NH1	ARG	C	573	18.936	78.901	27.160	1.00	202.35	7
ATOM	7919	NH2	ARG	C	573	17.036	78.293	28.292	1.00	203.74	7
ATOM	7920	C	ARG	C	573	22.711	83.940	28.410	1.00	45.92	6
ATOM	7921	O	ARG	C	573	22.941	83.986	29.612	1.00	44.53	8
ATOM	7922	N	ALA	C	574	22.990	84.926	27.575	1.00	36.56	7
ATOM	7923	CA	ALA	C	574	23.655	86.123	28.026	1.00	36.57	6
ATOM	7924	CB	ALA	C	574	24.060	86.932	26.848	1.00	28.73	6
ATOM	7925	C	ALA	C	574	22.884	86.994	29.000	1.00	36.13	6
ATOM	7926	O	ALA	C	574	23.401	87.345	30.057	1.00	37.99	8
ATOM	7927	N	GLN	C	575	21.652	87.350	28.663	1.00	22.89	7
ATOM	7928	CA	GLN	C	575	20.853	88.218	29.535	1.00	20.60	6
ATOM	7929	CB	GLN	C	575	20.633	87.599	30.921	1.00	41.70	6
ATOM	7930	CG	GLN	C	575	20.953	86.125	31.064	1.00	41.79	6
ATOM	7931	CD	GLN	C	575	20.832	85.685	32.491	1.00	41.32	6
ATOM	7932	OE1	GLN	C	575	21.412	86.300	33.374	1.00	42.31	8
ATOM	7933	NE2	GLN	C	575	20.074	84.627	32.732	1.00	40.07	7
ATOM	7934	C	GLN	C	575	21.542	89.557	29.756	1.00	19.44	6
ATOM	7935	O	GLN	C	575	22.702	89.609	30.144	1.00	19.35	8
ATOM	7936	N	ALA	C	576	20.836	90.648	29.514	1.00	19.52	7
ATOM	7937	CA	ALA	C	576	21.432	91.947	29.749	1.00	19.48	6
ATOM	7938	CB	ALA	C	576	20.508	93.042	29.267	1.00	59.31	6
ATOM	7939	C	ALA	C	576	21.554	92.006	31.252	1.00	19.91	6
ATOM	7940	O	ALA	C	576	21.283	91.029	31.937	1.00	19.51	8
ATOM	7941	N	PRO	C	577	22.007	93.128	31.791	1.00	59.79	7
ATOM	7942	CD	PRO	C	577	22.962	94.057	31.168	1.00	54.76	6
ATOM	7943	CA	PRO	C	577	22.100	93.167	33.255	1.00	61.36	6

ATOM	7944	CB	PRO	C	577	23.353	93.996	33.493	1.00	55.62	6
ATOM	7945	CG	PRO	C	577	23.350	94.932	32.323	1.00	56.36	6
ATOM	7946	C	PRO	C	577	20.824	93.813	33.827	1.00	62.40	6
ATOM	7947	O	PRO	C	577	20.307	94.765	33.242	1.00	62.98	8
ATOM	7948	N	VAL	C	578	20.315	93.302	34.953	1.00	42.71	7
ATOM	7949	CA	VAL	C	578	19.086	93.839	35.547	1.00	41.26	6
ATOM	7950	CB	VAL	C	578	18.812	93.265	36.946	1.00	30.71	6
ATOM	7951	CG1	VAL	C	578	17.396	93.623	37.368	1.00	30.48	6
ATOM	7952	CG2	VAL	C	578	18.969	91.759	36.936	1.00	29.50	6
ATOM	7953	C	VAL	C	578	19.117	95.351	35.653	1.00	40.82	6
ATOM	7954	O	VAL	C	578	18.285	96.033	35.074	1.00	41.24	8
ATOM	7955	N	VAL	C	579	20.068	95.872	36.408	1.00	29.07	7
ATOM	7956	CA	VAL	C	579	20.219	97.314	36.557	1.00	28.65	6
ATOM	7957	CB	VAL	C	579	20.898	97.592	37.860	1.00	24.77	6
ATOM	7958	CG1	VAL	C	579	20.596	98.993	38.326	1.00	24.40	6
ATOM	7959	CG2	VAL	C	579	20.453	96.540	38.867	1.00	26.25	6
ATOM	7960	C	VAL	C	579	21.170	97.595	35.420	1.00	28.84	6
ATOM	7961	O	VAL	C	579	22.019	96.754	35.178	1.00	29.03	8
ATOM	7962	N	MET	C	580	21.098	98.724	34.716	1.00	36.94	7
ATOM	7963	CA	MET	C	580	22.044	98.816	33.609	1.00	37.38	6
ATOM	7964	CB	MET	C	580	21.596	97.821	32.538	1.00	40.20	6
ATOM	7965	CG	MET	C	580	20.188	97.982	32.025	1.00	40.57	6
ATOM	7966	SD	MET	C	580	19.791	96.643	30.875	1.00	42.09	16
ATOM	7967	CE	MET	C	580	19.292	97.526	29.441	1.00	42.42	6
ATOM	7968	C	MET	C	580	22.586	100.046	32.870	1.00	38.01	6
ATOM	7969	O	MET	C	580	23.401	99.856	31.971	1.00	38.73	8
ATOM	7970	N	THR	C	581	22.205	101.277	33.195	1.00	41.27	7
ATOM	7971	CA	THR	C	581	22.759	102.406	32.428	1.00	40.63	6
ATOM	7972	CB	THR	C	581	24.294	102.411	32.477	1.00	23.18	6
ATOM	7973	OG1	THR	C	581	24.735	102.856	33.762	1.00	22.74	8
ATOM	7974	CG2	THR	C	581	24.854	103.303	31.386	1.00	23.31	6
ATOM	7975	C	THR	C	581	22.356	102.267	30.958	1.00	40.22	6
ATOM	7976	O	THR	C	581	22.575	101.222	30.359	1.00	41.67	8
ATOM	7977	N	GLY	C	582	21.814	103.319	30.356	1.00	61.44	7
ATOM	7978	CA	GLY	C	582	21.370	103.218	28.969	1.00	61.60	6
ATOM	7979	C	GLY	C	582	22.265	102.711	27.832	1.00	61.20	6
ATOM	7980	O	GLY	C	582	21.784	102.051	26.911	1.00	61.97	8
ATOM	7981	N	LEU	C	583	23.560	103.004	27.895	1.00	33.10	7
ATOM	7982	CA	LEU	C	583	24.509	102.643	26.841	1.00	29.69	6
ATOM	7983	CB	LEU	C	583	25.930	102.960	27.315	1.00	14.70	6

ATOM	8000	CB	GLU	C	585	20.259	100.389	24.024	1.00	85.92	6
ATOM	8001	CG	GLU	C	585	19.548	100.353	25.382	1.00	89.81	6
ATOM	8002	CD	GLU	C	585	18.416	101.375	25.507	1.00	92.09	6
ATOM	8003	OE1	GLU	C	585	18.688	102.594	25.505	1.00	94.24	8
ATOM	8004	OE2	GLU	C	585	17.247	100.956	25.612	1.00	93.62	8
ATOM	8005	C	GLU	C	585	22.265	99.842	22.659	1.00	58.83	6
ATOM	8006	O	GLU	C	585	21.726	99.937	21.561	1.00	58.39	8
ATOM	8007	N	ARG	C	586	23.560	100.082	22.860	1.00	62.56	7
ATOM	8008	CA	ARG	C	586	24.427	100.544	21.784	1.00	63.44	6
ATOM	8009	CB	ARG	C	586	24.666	102.041	21.947	1.00	43.28	6
ATOM	8010	CG	ARG	C	586	25.247	102.691	20.730	1.00	45.77	6
ATOM	8011	CD	ARG	C	586	25.462	104.173	20.924	1.00	49.63	6
ATOM	8012	NE	ARG	C	586	25.643	104.814	19.629	1.00	54.25	7
ATOM	8013	CZ	ARG	C	586	24.647	105.069	18.789	1.00	57.52	6
ATOM	8014	NH1	ARG	C	586	23.405	104.751	19.122	1.00	58.30	7
ATOM	8015	NH2	ARG	C	586	24.895	105.604	17.601	1.00	59.21	7
ATOM	8016	C	ARG	C	586	25.778	99.854	21.619	1.00	64.38	6
ATOM	8017	O	ARG	C	586	26.085	99.318	20.557	1.00	65.33	8
ATOM	8018	N	VAL	C	587	26.605	99.895	22.654	1.00	33.31	7
ATOM	8019	CA	VAL	C	587	27.922	99.274	22.584	1.00	33.17	6
ATOM	8020	CB	VAL	C	587	28.479	99.026	23.991	1.00	27.55	6
ATOM	8021	CG1	VAL	C	587	29.711	98.138	23.930	1.00	26.75	6
ATOM	8022	CG2	VAL	C	587	28.800	100.379	24.643	1.00	26.75	6
ATOM	8023	C	VAL	C	587	27.919	97.968	21.801	1.00	34.49	6
ATOM	8024	O	VAL	C	587	28.942	97.568	21.268	1.00	34.65	8
ATOM	8025	N	VAL	C	588	26.771	97.308	21.725	1.00	43.57	7
ATOM	8026	CA	VAL	C	588	26.665	96.056	20.988	1.00	45.37	6
ATOM	8027	CB	VAL	C	588	26.054	94.956	21.871	1.00	42.64	6
ATOM	8028	CG1	VAL	C	588	25.582	93.762	21.025	1.00	42.85	6
ATOM	8029	CG2	VAL	C	588	27.112	94.492	22.862	1.00	45.43	6
ATOM	8030	C	VAL	C	588	25.810	96.294	19.770	1.00	47.23	6
ATOM	8031	O	VAL	C	588	24.911	95.522	19.434	1.00	49.80	8
ATOM	8032	N	ARG	C	589	26.098	97.389	19.097	1.00	27.94	7
ATOM	8033	CA	ARG	C	589	25.343	97.725	17.922	1.00	27.95	6
ATOM	8034	CB	ARG	C	589	24.034	98.400	18.315	1.00	84.19	6
ATOM	8035	CG	ARG	C	589	22.853	97.457	18.223	1.00	86.48	6
ATOM	8036	CD	ARG	C	589	22.514	97.279	16.771	1.00	88.53	6
ATOM	8037	NE	ARG	C	589	21.700	96.107	16.502	1.00	90.71	7
ATOM	8038	CZ	ARG	C	589	21.102	95.897	15.336	1.00	91.23	6
ATOM	8039	NH1	ARG	C	589	21.233	96.785	14.360	1.00	90.22	7

ATOM	8056	O	SER	C	591	30.718	94.940	15.924	1.00	54.69	8
ATOM	8057	N	LEU	C	592	28.932	96.235	15.450	1.00	45.12	7
ATOM	8058	CA	LEU	C	592	28.528	95.507	14.265	1.00	43.08	6
ATOM	8059	CB	LEU	C	592	29.379	95.919	13.068	1.00	67.56	6
ATOM	8060	CG	LEU	C	592	28.960	97.287	12.526	1.00	68.37	6
ATOM	8061	CD1	LEU	C	592	29.673	97.540	11.217	1.00	68.27	6
ATOM	8062	CD2	LEU	C	592	27.441	97.336	12.314	1.00	67.42	6
ATOM	8063	C	LEU	C	592	28.586	94.011	14.474	1.00	42.04	6
ATOM	8064	O	LEU	C	592	28.633	93.255	13.519	1.00	41.72	8
ATOM	8065	N	ALA	C	593	28.562	93.589	15.732	1.00	25.75	7
ATOM	8066	CA	ALA	C	593	28.621	92.169	16.053	1.00	26.87	6
ATOM	8067	CB	ALA	C	593	29.038	91.982	17.504	1.00	31.71	6
ATOM	8068	C	ALA	C	593	27.277	91.481	15.792	1.00	28.06	6
ATOM	8069	O	ALA	C	593	27.219	90.258	15.622	1.00	28.12	8
ATOM	8070	N	ALA	C	594	26.206	92.275	15.762	1.00	41.56	7
ATOM	8071	CA	ALA	C	594	24.861	91.768	15.520	1.00	43.85	6
ATOM	8072	CB	ALA	C	594	23.942	92.183	16.625	1.00	21.34	6
ATOM	8073	C	ALA	C	594	24.383	92.336	14.200	1.00	46.63	6
ATOM	8074	O	ALA	C	594	24.893	93.355	13.735	1.00	47.16	8
ATOM	8075	N	LEU	C	595	23.389	91.680	13.613	1.00	67.64	7
ATOM	8076	CA	LEU	C	595	22.848	92.063	12.312	1.00	71.12	6
ATOM	8077	CB	LEU	C	595	22.225	90.828	11.667	1.00	45.48	6
ATOM	8078	CG	LEU	C	595	21.863	90.819	10.187	1.00	45.09	6
ATOM	8079	CD1	LEU	C	595	23.041	91.241	9.342	1.00	45.90	6
ATOM	8080	CD2	LEU	C	595	21.422	89.416	9.817	1.00	45.26	6
ATOM	8081	C	LEU	C	595	21.837	93.202	12.363	1.00	73.93	6
ATOM	8082	O	LEU	C	595	20.920	93.194	13.179	1.00	74.05	8
ATOM	8083	N	TYR	C	596	22.008	94.177	11.474	1.00	99.78	7
ATOM	8084	CA	TYR	C	596	21.118	95.335	11.426	1.00	103.58	6
ATOM	8085	CB	TYR	C	596	21.930	96.622	11.654	1.00	208.87	6
ATOM	8086	CG	TYR	C	596	22.964	96.938	10.591	1.00	208.87	6
ATOM	8087	CD1	TYR	C	596	22.606	97.595	9.413	1.00	208.87	6
ATOM	8088	CE1	TYR	C	596	23.549	97.880	8.433	1.00	208.87	6
ATOM	8089	CD2	TYR	C	596	24.298	96.572	10.761	1.00	208.87	6
ATOM	8090	CE2	TYR	C	596	25.250	96.852	9.786	1.00	208.87	6
ATOM	8091	CZ	TYR	C	596	24.868	97.505	8.626	1.00	208.87	6
ATOM	8092	OH	TYR	C	596	25.808	97.779	7.662	1.00	208.87	8
ATOM	8093	C	TYR	C	596	20.301	95.450	10.135	1.00	103.76	6
ATOM	8094	O	TYR	C	596	20.854	95.557	9.038	1.00	104.74	8
ATOM	8095	N	ALA	C	597	18.979	95.433	10.277	1.00	56.72	

ATOM	8112	CG	GLU	C	599	16.244	101.120	2.754	1.00	86.67	6
ATOM	8113	CD	GLU	C	599	17.399	100.235	2.307	1.00	87.36	6
ATOM	8114	OE1	GLU	C	599	17.186	99.349	1.447	1.00	87.49	8
ATOM	8115	OE2	GLU	C	599	18.525	100.430	2.812	1.00	87.70	8
ATOM	8116	C	GLU	C	599	14.011	99.205	5.331	1.00	64.02	6
ATOM	8117	O	GLU	C	599	13.984	97.973	5.380	1.00	62.83	8
ATOM	8118	N	ASP	C	600	12.989	99.981	5.681	1.00	122.82	7
ATOM	8119	CA	ASP	C	600	11.707	99.471	6.150	1.00	123.27	6
ATOM	8120	CB	ASP	C	600	10.675	99.549	5.019	1.00	143.28	6
ATOM	8121	CG	ASP	C	600	9.803	100.795	5.105	1.00	144.39	6
ATOM	8122	OD1	ASP	C	600	9.093	100.952	6.121	1.00	144.36	8
ATOM	8123	OD2	ASP	C	600	9.822	101.612	4.159	1.00	145.27	8
ATOM	8124	C	ASP	C	600	11.710	98.067	6.743	1.00	123.01	6
ATOM	8125	O	ASP	C	600	12.702	97.622	7.319	1.00	123.81	8
ATOM	8126	N	GLY	C	601	10.584	97.375	6.596	1.00	71.19	7
ATOM	8127	CA	GLY	C	601	10.450	96.037	7.143	1.00	70.09	6
ATOM	8128	C	GLY	C	601	10.145	94.930	6.159	1.00	69.28	6
ATOM	8129	O	GLY	C	601	10.481	95.033	4.984	1.00	68.71	8
ATOM	8130	N	ALA	C	602	9.496	93.880	6.664	1.00	152.74	7
ATOM	8131	CA	ALA	C	602	9.135	92.674	5.913	1.00	152.02	6
ATOM	8132	CB	ALA	C	602	9.206	92.910	4.404	1.00	75.08	6
ATOM	8133	C	ALA	C	602	10.147	91.612	6.334	1.00	151.47	6
ATOM	8134	O	ALA	C	602	10.923	91.839	7.256	1.00	152.79	8
ATOM	8135	N	VAL	C	603	10.142	90.457	5.676	1.00	85.64	7
ATOM	8136	CA	VAL	C	603	11.086	89.397	6.023	1.00	83.57	6
ATOM	8137	CB	VAL	C	603	10.783	88.811	7.427	1.00	62.32	6
ATOM	8138	CG1	VAL	C	603	11.673	89.475	8.471	1.00	61.84	6
ATOM	8139	CG2	VAL	C	603	9.318	89.026	7.779	1.00	62.26	6
ATOM	8140	C	VAL	C	603	11.139	88.258	5.001	1.00	82.75	6
ATOM	8141	O	VAL	C	603	11.578	88.473	3.869	1.00	83.33	8
ATOM	8142	N	VAL	C	604	10.707	87.061	5.418	1.00	52.44	7
ATOM	8143	CA	VAL	C	604	10.677	85.827	4.600	1.00	51.13	6
ATOM	8144	CB	VAL	C	604	11.256	86.016	3.177	1.00	79.65	6
ATOM	8145	CG1	VAL	C	604	11.554	84.655	2.573	1.00	81.30	6
ATOM	8146	CG2	VAL	C	604	10.267	86.763	2.289	1.00	79.72	6
ATOM	8147	C	VAL	C	604	11.465	84.687	5.254	1.00	50.52	6
ATOM	8148	O	VAL	C	604	10.923	83.620	5.533	1.00	49.82	8
ATOM	8149	N	LYS	C	605	12.755	84.923	5.450	1.00	60.13	7
ATOM	8150	CA	LYS	C	605	13.659	83.973	6.088	1.00	59.49	6
ATOM	8151	CB	LYS	C	605	13.505	84.065	7.604	1.00	56.16	6
ATOM	8152	CG	LYS	C	605						



ATOM	8168	CG	ASP	C	607	13.510	81.063	11.652	1.00139.08	6
ATOM	8169	OD1	ASP	C	607	14.252	81.866	12.259	1.00139.35	8
ATOM	8170	OD2	ASP	C	607	12.264	81.142	11.660	1.00140.44	8
ATOM	8171	C	ASP	C	607	16.382	79.547	9.799	1.00 52.92	6
ATOM	8172	O	ASP	C	607	16.487	78.641	8.962	1.00 53.19	8
ATOM	8173	N	GLY	C	608	17.322	79.816	10.698	1.00114.79	7
ATOM	8174	CA	GLY	C	608	18.521	79.007	10.762	1.00114.98	6
ATOM	8175	C	GLY	C	608	19.850	79.714	10.576	1.00114.21	6
ATOM	8176	O	GLY	C	608	20.257	80.544	11.393	1.00113.43	8
ATOM	8177	N	THR	C	609	20.524	79.373	9.484	1.00 77.25	7
ATOM	8178	CA	THR	C	609	21.831	79.922	9.176	1.00 77.03	6
ATOM	8179	CB	THR	C	609	22.696	78.855	8.476	1.00 40.34	6
ATOM	8180	OG1	THR	C	609	24.089	79.185	8.604	1.00 38.50	8
ATOM	8181	CG2	THR	C	609	22.318	78.774	7.004	1.00 39.60	6
ATOM	8182	C	THR	C	609	21.780	81.178	8.305	1.00 78.19	6
ATOM	8183	O	THR	C	609	22.743	81.485	7.599	1.00 78.53	8
ATOM	8184	N	ALA	C	610	20.665	81.903	8.351	1.00102.56	7
ATOM	8185	CA	ALA	C	610	20.543	83.133	7.573	1.00103.01	6
ATOM	8186	CB	ALA	C	610	20.996	82.888	6.137	1.00 98.76	6
ATOM	8187	C	ALA	C	610	19.150	83.751	7.560	1.00103.30	6
ATOM	8188	O	ALA	C	610	18.204	83.121	7.097	1.00104.01	8
ATOM	8189	N	ILE	C	611	19.016	84.975	8.073	1.00 78.66	7
ATOM	8190	CA	ILE	C	611	17.719	85.644	8.038	1.00 78.67	6
ATOM	8191	CB	ILE	C	611	17.710	87.019	8.778	1.00 48.67	6
ATOM	8192	CG2	ILE	C	611	16.859	87.998	8.017	1.00 49.38	6
ATOM	8193	CG1	ILE	C	611	17.076	86.907	10.168	1.00 47.17	6
ATOM	8194	CD1	ILE	C	611	17.863	86.119	11.149	1.00 46.07	6
ATOM	8195	C	ILE	C	611	17.587	85.898	6.549	1.00 79.77	6
ATOM	8196	O	ILE	C	611	18.400	86.615	5.970	1.00 79.64	8
ATOM	8197	N	ALA	C	612	16.588	85.291	5.920	1.00 65.93	7
ATOM	8198	CA	ALA	C	612	16.411	85.466	4.489	1.00 67.35	6
ATOM	8199	CB	ALA	C	612	15.664	84.279	3.886	1.00127.77	6
ATOM	8200	C	ALA	C	612	15.697	86.754	4.164	1.00 68.82	6
ATOM	8201	O	ALA	C	612	14.474	86.852	4.230	1.00 69.13	8
ATOM	8202	N	VAL	C	613	16.500	87.752	3.839	1.00 87.03	7
ATOM	8203	CA	VAL	C	613	16.011	89.058	3.455	1.00 88.75	6
ATOM	8204	CB	VAL	C	613	15.435	89.009	2.035	1.00191.61	6
ATOM	8205	CG1	VAL	C	613	15.242	90.419	1.505	1.00192.00	6
ATOM	8206	CG2	VAL	C	613	16.348	88.188	1.136	1.00192.66	6
ATOM	8207	C	VAL	C	613	14.974	89.743	4.336	1.00 89.29	6
ATOM	8208	O	VAL	C	613	14.395	89.173	5.260	1.00 89.25	8
ATOM	8209	N	ARG	C	614	14.778	91.005	3.999	1.00112.69	7
ATOM	8210	CA	ARG	C	614	13.839	91.907	4.618	1.00113.97	6
ATOM	8211	CB	ARG	C	614	14.631	93.031	5.297	1.00 66.66	6
ATOM	8212	CG	ARG	C	614	15.895	93.427	4.519	1.00 65.25	6
ATOM	8213	CD	ARG	C	614	16.886	94.240	5.340	1.00 64.64	6
ATOM	8214	NE	ARG	C	614	18.182	94.315	4.666	1.00 63.93	7
ATOM	8215	CZ	ARG	C	614	19.336	94.590	5.272	1.00 64.57	6
ATOM	8216	NH1	ARG	C	614	19.369	94.822	6.573	1.00 65.21	7
ATOM	8217	NH2	ARG	C	614	20.468	94.612	4.581	1.00 65.16	7
ATOM	8218	C	ARG	C	614	13.101	92.380	3.358	1.00115.71	6
ATOM	8219	O	ARG	C	614	13.391	93.438	2.809	1.00117.13	8
ATOM	8220	N	ALA	C	615	12.175	91.546	2.896	1.00 94.59	7
ATOM	8221	CA	ALA	C	615	11.384	91.755	1.677	1.00 94.60	6
ATOM	8222	CB	ALA	C	615	10.156	90.844	1.730	1.00126.60	6
ATOM	8223	C	ALA	C	615	10.949	93.147	1.187	1.00 94.78	6

ATOM	8224	O	ALA	C	615	10.038	93.243	0.355	1.00	95.34	8
ATOM	8225	N	ALA	C	616	11.575	94.216	1.669	1.00	105.19	7
ATOM	8226	CA	ALA	C	616	11.209	95.562	1.227	1.00	103.90	6
ATOM	8227	CB	ALA	C	616	11.425	96.566	2.354	1.00	115.14	6
ATOM	8228	C	ALA	C	616	12.055	95.942	0.016	1.00	103.39	6
ATOM	8229	O	ALA	C	616	13.279	96.033	0.113	1.00	103.74	8
ATOM	8230	N	ALA	C	617	11.394	96.154	-1.122	1.00	152.23	7
ATOM	8231	CA	ALA	C	617	12.063	96.517	-2.375	1.00	150.98	6
ATOM	8232	CB	ALA	C	617	12.968	97.740	-2.159	1.00	105.32	6
ATOM	8233	C	ALA	C	617	12.871	95.345	-2.949	1.00	149.51	6
ATOM	8234	O	ALA	C	617	12.300	94.397	-3.490	1.00	150.02	8
ATOM	8235	N	GLY	C	618	14.195	95.418	-2.840	1.00	105.94	7
ATOM	8236	CA	GLY	C	618	15.042	94.352	-3.348	1.00	103.81	6
ATOM	8237	C	GLY	C	618	15.018	93.170	-2.401	1.00	102.70	6
ATOM	8238	O	GLY	C	618	14.029	92.962	-1.701	1.00	103.42	8
ATOM	8239	N	ARG	C	619	16.094	92.390	-2.368	1.00	105.88	7
ATOM	8240	CA	ARG	C	619	16.151	91.238	-1.470	1.00	103.75	6
ATOM	8241	CB	ARG	C	619	15.511	90.017	-2.137	1.00	80.95	6
ATOM	8242	CG	ARG	C	619	14.646	89.240	-1.196	1.00	82.19	6
ATOM	8243	CD	ARG	C	619	14.285	87.878	-1.705	1.00	83.29	6
ATOM	8244	NE	ARG	C	619	14.236	86.920	-0.604	1.00	84.96	7
ATOM	8245	CZ	ARG	C	619	13.425	85.865	-0.543	1.00	86.74	6
ATOM	8246	NH1	ARG	C	619	12.562	85.614	-1.521	1.00	88.12	7
ATOM	8247	NH2	ARG	C	619	13.494	85.040	0.494	1.00	88.66	7
ATOM	8248	C	ARG	C	619	17.592	90.916	-1.052	1.00	102.23	6
ATOM	8249	O	ARG	C	619	18.514	91.018	-1.865	1.00	103.00	8
ATOM	8250	N	ALA	C	620	17.792	90.529	0.209	1.00	46.28	7
ATOM	8251	CA	ALA	C	620	19.137	90.224	0.683	1.00	43.89	6
ATOM	8252	CB	ALA	C	620	19.802	91.498	1.151	1.00	55.43	6
ATOM	8253	C	ALA	C	620	19.216	89.184	1.781	1.00	42.30	6
ATOM	8254	O	ALA	C	620	19.118	89.516	2.947	1.00	41.57	8
ATOM	8255	N	VAL	C	621	19.402	87.925	1.409	1.00	53.94	7
ATOM	8256	CA	VAL	C	621	19.525	86.843	2.388	1.00	52.46	6
ATOM	8257	CB	VAL	C	621	19.751	85.469	1.685	1.00	104.37	6
ATOM	8258	CG1	VAL	C	621	20.054	84.389	2.714	1.00	105.44	6
ATOM	8259	CG2	VAL	C	621	18.521	85.086	0.877	1.00	104.85	6
ATOM	8260	C	VAL	C	621	20.730	87.155	3.284	1.00	51.08	6
ATOM	8261	O	VAL	C	621	21.841	87.383	2.799	1.00	51.01	8
ATOM	8262	N	HIS	C	623	20.511	87.165	4.590	1.00	53.04	7
ATOM	8263	CA	HIS	C	623	21.586	87.472	5.514	1.00	51.62	6
ATOM	8264	CB	HIS	C	623	2					

ATOM	8280	CA	LEU	C	625	24.561	84.590	10.191	1.00	62.50	6
ATOM	8281	CB	LEU	C	625	23.341	84.190	11.036	1.00	34.04	6
ATOM	8282	CG	LEU	C	625	22.009	84.938	10.871	1.00	32.77	6
ATOM	8283	CD1	LEU	C	625	21.034	84.408	11.903	1.00	33.14	6
ATOM	8284	CD2	LEU	C	625	22.180	86.435	11.069	1.00	33.40	6
ATOM	8285	C	LEU	C	625	25.833	83.914	10.719	1.00	62.74	6
ATOM	8286	O	LEU	C	625	25.827	82.711	10.981	1.00	63.85	8
ATOM	8287	N	ARG	C	626	26.916	84.686	10.865	1.00	42.15	7
ATOM	8288	CA	ARG	C	626	28.189	84.158	11.373	1.00	42.91	6
ATOM	8289	CB	ARG	C	626	29.079	85.300	11.884	1.00	116.16	6
ATOM	8290	CG	ARG	C	626	29.688	86.150	10.767	1.00	120.08	6
ATOM	8291	CD	ARG	C	626	30.320	87.465	11.266	1.00	122.23	6
ATOM	8292	NE	ARG	C	626	31.633	87.310	11.901	1.00	123.23	7
ATOM	8293	CZ	ARG	C	626	32.401	88.329	12.294	1.00	122.68	6
ATOM	8294	NH1	ARG	C	626	31.995	89.581	12.120	1.00	123.21	7
ATOM	8295	NH2	ARG	C	626	33.573	88.100	12.872	1.00	122.47	7
ATOM	8296	C	ARG	C	626	27.912	83.160	12.494	1.00	41.63	6
ATOM	8297	O	ARG	C	626	27.615	83.550	13.623	1.00	41.46	8
ATOM	8298	N	ARG	C	627	28.015	81.868	12.177	1.00	46.57	7
ATOM	8299	CA	ARG	C	627	27.712	80.817	13.149	1.00	45.53	6
ATOM	8300	CB	ARG	C	627	26.744	79.817	12.529	1.00	76.33	6
ATOM	8301	CG	ARG	C	627	25.840	79.169	13.559	1.00	77.92	6
ATOM	8302	CD	ARG	C	627	24.679	80.089	13.915	1.00	79.04	6
ATOM	8303	NE	ARG	C	627	24.070	79.737	15.193	1.00	79.30	7
ATOM	8304	CZ	ARG	C	627	22.786	79.914	15.474	1.00	79.43	6
ATOM	8305	NH1	ARG	C	627	21.976	80.433	14.561	1.00	79.88	7
ATOM	8306	NH2	ARG	C	627	22.314	79.579	16.667	1.00	78.53	7
ATOM	8307	C	ARG	C	627	28.865	80.040	13.786	1.00	44.52	6
ATOM	8308	O	ARG	C	627	29.764	79.547	13.101	1.00	44.13	8
ATOM	8309	N	TYR	C	628	28.786	79.908	15.110	1.00	37.59	7
ATOM	8310	CA	TYR	C	628	29.780	79.212	15.910	1.00	36.77	6
ATOM	8311	CB	TYR	C	628	29.414	77.740	16.056	1.00	63.07	6
ATOM	8312	CG	TYR	C	628	28.380	77.553	17.129	1.00	65.11	6
ATOM	8313	CD1	TYR	C	628	27.139	78.197	17.047	1.00	65.45	6
ATOM	8314	CE1	TYR	C	628	26.224	78.134	18.090	1.00	64.71	6
ATOM	8315	CD2	TYR	C	628	28.673	76.829	18.281	1.00	65.64	6
ATOM	8316	CE2	TYR	C	628	27.764	76.759	19.330	1.00	65.07	6
ATOM	8317	CZ	TYR	C	628	26.545	77.419	19.232	1.00	64.58	6
ATOM	8318	OH	TYR	C	628	25.678	77.393	20.301	1.00	64.00	8
ATOM	8319	C	TYR	C	628	31.151	79.370	15.334	1.00	36.13	

ATOM	8336	O	ARG	C	630	36.295	83.549	15.974	1.00	27.83	8
ATOM	8337	N	SER	C	631	36.981	82.719	17.943	1.00	75.23	7
ATOM	8338	CA	SER	C	631	37.426	84.034	18.402	1.00	77.41	6
ATOM	8339	CB	SER	C	631	36.795	84.345	19.750	1.00	102.85	6
ATOM	8340	OG	SER	C	631	35.385	84.196	19.684	1.00	104.52	8
ATOM	8341	C	SER	C	631	38.932	84.156	18.515	1.00	78.51	6
ATOM	8342	O	SER	C	631	39.631	83.163	18.662	1.00	79.56	8
ATOM	8343	N	ASN	C	632	39.430	85.382	18.434	1.00	67.55	7
ATOM	8344	CA	ASN	C	632	40.862	85.613	18.541	1.00	68.58	6
ATOM	8345	CB	ASN	C	632	41.176	87.101	18.501	1.00	55.31	6
ATOM	8346	CG	ASN	C	632	41.131	87.653	17.115	1.00	55.62	6
ATOM	8347	OD1	ASN	C	632	42.019	87.403	16.312	1.00	51.87	8
ATOM	8348	ND2	ASN	C	632	40.084	88.395	16.812	1.00	57.62	7
ATOM	8349	C	ASN	C	632	41.287	85.055	19.865	1.00	69.32	6
ATOM	8350	O	ASN	C	632	42.328	84.418	19.982	1.00	70.85	8
ATOM	8351	N	GLN	C	633	40.461	85.330	20.849	1.00	37.41	7
ATOM	8352	CA	GLN	C	633	40.687	84.815	22.193	1.00	38.28	6
ATOM	8353	CB	GLN	C	633	40.022	85.718	23.232	1.00	166.95	6
ATOM	8354	CG	GLN	C	633	39.552	87.056	22.683	1.00	169.97	6
ATOM	8355	CD	GLN	C	633	40.598	87.729	21.818	1.00	172.13	6
ATOM	8356	OE1	GLN	C	633	40.302	88.683	21.097	1.00	172.88	8
ATOM	8357	NE2	GLN	C	633	41.881	87.397	21.731	1.00	174.33	7
ATOM	8358	C	GLN	C	633	40.177	83.384	22.327	1.00	38.17	6
ATOM	8359	O	GLN	C	633	40.321	82.752	23.334	1.00	39.26	8
ATOM	8360	N	GLY	C	634	39.583	82.897	21.232	1.00	74.61	7
ATOM	8361	CA	GLY	C	634	39.065	81.542	21.268	1.00	74.34	6
ATOM	8362	C	GLY	C	634	37.733	81.524	21.979	1.00	74.02	6
ATOM	8363	O	GLY	C	634	37.279	80.497	22.474	1.00	74.35	8
ATOM	8364	N	THR	C	635	37.107	82.691	22.020	1.00	78.24	7
ATOM	8365	CA	THR	C	635	35.822	82.864	22.664	1.00	78.54	6
ATOM	8366	CB	THR	C	635	35.444	84.367	22.724	1.00	104.98	6
ATOM	8367	OG1	THR	C	635	35.430	84.788	24.091	1.00	107.03	8
ATOM	8368	CG2	THR	C	635	34.080	84.636	22.093	1.00	105.64	6
ATOM	8369	C	THR	C	635	34.706	82.069	22.005	1.00	78.33	6
ATOM	8370	O	THR	C	635	34.102	81.231	22.663	1.00	80.40	8
ATOM	8371	N	ALA	C	636	34.443	82.320	20.721	1.00	25.53	7
ATOM	8372	CA	ALA	C	636	33.374	81.644	19.986	1.00	23.68	6
ATOM	8373	CB	ALA	C	636	33.003	80.308	20.642	1.00	52.56	6
ATOM	8374	C	ALA	C	636	32.129	82.514	19.886	1.00	23.17	6
ATOM	8375	O	ALA	C	636	31.054	82.152	20.367	1.00	21.83	8
ATOM	8376	N	PHE	C	637	32.274	83.667	19.254	1.00	20.92	7
ATOM	8377	CA	PHE	C	637	31.150	84.576	19.078	1.00	20.85	6
ATOM	8378	CB	PHE	C	637	31.671	85.973	18.703	1.00	76.68	6
ATOM	8379	CG	PHE	C	637	31.455	86.331	17.268	1.00	76.26	6
ATOM	8380	CD1	PHE	C	637	30.307	86.993	16.877	1.00	76.05	6
ATOM	8381	CD2	PHE	C	637	32.365	85.950	16.298	1.00	76.17	6
ATOM	8382	CE1	PHE	C	637	30.065	87.268	15.541	1.00	74.70	6
ATOM	8383	CE2	PHE	C	637	32.128	86.221	14.963	1.00	75.81	6
ATOM	8384	CZ	PHE	C	637	30.974	86.880	14.586	1.00	74.99	6
ATOM	8385	C	PHE	C	637	30.256	84.026	17.964	1.00	20.74	6
ATOM	8386	O	PHE	C	637	30.760	83.636	16.902	1.00	19.02	8
ATOM	8387	N	ALA	C	638	28.944	83.994	18.223	1.00	75.28	7
ATOM	8388	CA	ALA	C	638	27.937	83.501	17.267	1.00	77.77	6
ATOM	8389	CB	ALA	C	638	27.460	82.101	17.667	1.00	78.00	6
ATOM	8390	C	ALA	C	638	26.736	84.452	17.159	1.00	78.88	6
ATOM	8391	O	ALA	C	638	26.675	85.460	17.868	1.00	78.96	8

ATOM	8392	N	GLN	C1639	25.776	84.124	16.291	1.00	42.30	7
ATOM	8393	CA	GLN	C1639	24.609	84.988	16.082	1.00	44.59	6
ATOM	8394	CB	GLN	C1639	24.843	85.849	14.841	1.00	96.59	6
ATOM	8395	CG	GLN	C1639	25.848	86.957	15.050	1.00	99.50	6
ATOM	8396	CD	GLN	C1639	26.278	87.593	13.753	1.00	102.01	6
ATOM	8397	OE1	GLN	C1639	25.450	87.942	12.920	1.00	105.55	8
ATOM	8398	NE2	GLN	C1639	27.582	87.757	13.576	1.00	102.38	7
ATOM	8399	C	GLN	C1639	23.229	84.326	15.969	1.00	45.30	6
ATOM	8400	O	GLN	C1639	22.943	83.634	15.003	1.00	44.35	8
ATOM	8401	N	ARG	C 640	22.373	84.580	16.956	1.00	59.63	7
ATOM	8402	CA	ARG	C 640	21.009	84.051	16.990	1.00	61.89	6
ATOM	8403	CB	ARG	C 640	20.521	83.936	18.437	1.00	153.83	6
ATOM	8404	CG	ARG	C 640	19.029	83.679	18.568	1.00	156.43	6
ATOM	8405	CD	ARG	C 640	18.627	83.400	20.003	1.00	158.29	6
ATOM	8406	NE	ARG	C 640	17.216	83.041	20.101	1.00	160.47	7
ATOM	8407	CZ	ARG	C 640	16.638	82.066	19.403	1.00	161.22	6
ATOM	8408	NH1	ARG	C 640	17.347	81.342	18.545	1.00	161.40	7
ATOM	8409	NH2	ARG	C 640	15.345	81.811	19.563	1.00	161.77	7
ATOM	8410	C	ARG	C 640	20.085	84.987	16.216	1.00	63.50	6
ATOM	8411	O	ARG	C 640	20.331	86.186	16.144	1.00	63.90	8
ATOM	8412	N	PRO	C 641	19.006	84.450	15.629	1.00	62.03	7
ATOM	8413	CD	PRO	C 641	18.787	83.012	15.379	1.00	46.62	6
ATOM	8414	CA	PRO	C 641	18.054	85.250	14.855	1.00	63.40	6
ATOM	8415	CB	PRO	C 641	17.718	84.318	13.716	1.00	47.20	6
ATOM	8416	CG	PRO	C 641	17.567	83.015	14.462	1.00	46.99	6
ATOM	8417	C	PRO	C 641	16.802	85.628	15.643	1.00	65.41	6
ATOM	8418	O	PRO	C 641	16.645	85.220	16.797	1.00	65.47	8
ATOM	8419	N	ARG	C 642	15.913	86.392	15.002	1.00	70.26	7
ATOM	8420	CA	ARG	C 642	14.645	86.816	15.610	1.00	72.74	6
ATOM	8421	CB	ARG	C 642	14.877	87.954	16.618	1.00	116.38	6
ATOM	8422	CG	ARG	C 642	13.580	88.464	17.257	1.00	117.46	6
ATOM	8423	CD	ARG	C 642	13.809	89.516	18.344	1.00	118.32	6
ATOM	8424	NE	ARG	C 642	12.544	89.986	18.920	1.00	118.81	7
ATOM	8425	CZ	ARG	C 642	12.436	90.914	19.873	1.00	118.86	6
ATOM	8426	NH1	ARG	C 642	13.519	91.493	20.382	1.00	117.93	7
ATOM	8427	NH2	ARG	C 642	11.235	91.271	20.315	1.00	118.51	7
ATOM	8428	C	ARG	C 642	13.540	87.254	14.632	1.00	73.67	6
ATOM	8429	O	ARG	C 642	13.766	88.075	13.738	1.00	73.21	8
ATOM	8430	N	VAL	C 643	12.351	86.680	14.819	1.00	54.77	7
ATOM	8431	CA	VAL	C 643	11.147	87.009	14.044	1.00	57.83	6
ATOM	8432	CB	VAL	C 643	11.115	88.525	13.688	1.00	183.07	6
ATOM	8433	CG1	VAL	C 643	9.861	88.856	12.896	1.00	184.54	6
ATOM	8434	CG2	VAL	C 643	11.170	89.362	14.958	1.00	183.92	6
ATOM	8435	C	VAL	C 643	10.852	86.219	12.774	1.00	58.95	6
ATOM	8436	O	VAL	C 643	11.675	86.159	11.871	1.00	59.02	8
ATOM	8437	N	ARG	C 644	9.652	85.649	12.709	1.00	69.80	7
ATOM	8438	CA	ARG	C 644	9.210	84.865	11.557	1.00	72.46	6
ATOM	8439	CB	ARG	C 644	8.083	83.917	11.952	1.00	202.67	6
ATOM	8440	CG	ARG	C 644	8.467	82.802	12.888	1.00	204.91	6
ATOM	8441	CD	ARG	C 644	7.279	81.877	13.050	1.00	206.63	6
ATOM	8442	NE	ARG	C 644	7.601	80.669	13.796	1.00	208.87	7
ATOM	8443	CZ	ARG	C 644	6.779	79.632	13.909	1.00	208.87	6
ATOM	8444	NH1	ARG	C 644	5.593	79.668	13.322	1.00	208.87	7
ATOM	8445	NH2	ARG	C 644	7.139	78.561	14.598	1.00	208.87	7
ATOM	8446	C	ARG	C 644	8.692	85.742	10.422	1.00	73.10	6
ATOM	8447	O	ARG	C 644	9.176	85.667	9.287	1.00	72.87	8

ATOM	8448	N	VAL	C	645	7.683	86.552	10.734	1.00127.85	7
ATOM	8449	CA	VAL	C	645	7.063	87.444	9.759	1.00128.53	6
ATOM	8450	CB	VAL	C	645	5.737	86.859	9.258	1.00109.79	6
ATOM	8451	CG1	VAL	C	645	5.129	87.777	8.208	1.00109.80	6
ATOM	8452	CG2	VAL	C	645	5.966	85.463	8.703	1.00109.41	6
ATOM	8453	C	VAL	C	645	6.779	88.813	10.365	1.00128.82	6
ATOM	8454	O	VAL	C	645	5.784	88.988	11.072	1.00129.18	8
ATOM	8455	N	GLY	C	646	7.645	89.782	10.078	1.00 94.58	7
ATOM	8456	CA	GLY	C	646	7.461	91.115	10.630	1.00 94.93	6
ATOM	8457	C	GLY	C	646	7.932	92.247	9.738	1.00 95.18	6
ATOM	8458	O	GLY	C	646	8.204	92.038	8.553	1.00 95.22	8
ATOM	8459	N	ALA	C	647	8.040	93.445	10.311	1.00 89.09	7
ATOM	8460	CA	ALA	C	647	8.461	94.615	9.554	1.00 88.98	6
ATOM	8461	CB	ALA	C	647	7.434	95.716	9.711	1.00122.12	6
ATOM	8462	C	ALA	C	647	9.851	95.141	9.906	1.00 89.28	6
ATOM	8463	O	ALA	C	647	10.805	94.377	10.027	1.00 89.89	8
ATOM	8464	N	ARG	C	648	9.969	96.453	10.066	1.00 89.53	7
ATOM	8465	CA	ARG	C	648	11.267	97.029	10.359	1.00 90.09	6
ATOM	8466	CB	ARG	C	648	11.365	98.462	9.853	1.00 95.01	6
ATOM	8467	CG	ARG	C	648	12.733	99.008	10.169	1.00 95.96	6
ATOM	8468	CD	ARG	C	648	13.113	100.253	9.425	1.00 95.74	6
ATOM	8469	NE	ARG	C	648	14.569	100.324	9.347	1.00 96.24	7
ATOM	8470	CZ	ARG	C	648	15.381	100.194	10.391	1.00 97.70	6
ATOM	8471	NH1	ARG	C	648	14.885	99.992	11.603	1.00 98.66	7
ATOM	8472	NH2	ARG	C	648	16.692	100.245	10.222	1.00 98.84	7
ATOM	8473	C	ARG	C	648	11.747	97.013	11.798	1.00 90.53	6
ATOM	8474	O	ARG	C	648	12.850	96.549	12.076	1.00 90.84	8
ATOM	8475	N	ALA	C	649	10.950	97.535	12.720	1.00185.27	7
ATOM	8476	CA	ALA	C	649	11.401	97.552	14.099	1.00185.25	6
ATOM	8477	CB	ALA	C	649	12.353	98.725	14.309	1.00 92.17	6
ATOM	8478	C	ALA	C	649	10.292	97.598	15.132	1.00185.02	6
ATOM	8479	O	ALA	C	649	9.108	97.674	14.805	1.00185.90	8
ATOM	8480	N	ALA	C	650	10.714	97.542	16.389	1.00156.11	7
ATOM	8481	CA	ALA	C	650	9.834	97.581	17.549	1.00155.18	6
ATOM	8482	CB	ALA	C	650	9.242	96.201	17.806	1.00159.77	6
ATOM	8483	C	ALA	C	650	10.744	97.991	18.699	1.00154.07	6
ATOM	8484	O	ALA	C	650	11.183	97.151	19.484	1.00153.68	8
ATOM	8485	N	ALA	C	651	11.034	99.285	18.784	1.00198.58	7
ATOM	8486	CA	ALA	C	651	11.928	99.803	19.812	1.00197.30	6
ATOM	8487	CB	ALA	C	651	11.470	99.352	21.193	1.00113.54	6
ATOM	8488	C	ALA	C	651	13.319	99.255	19.501	1.00195.92	6
ATOM	8489	O	ALA	C	651	14.216	99.263	20.346	1.00197.13	8
ATOM	8490	N	GLY	C	652	13.476	98.778	18.269	1.00157.04	7
ATOM	8491	CA	GLY	C	652	14.741	98.227	17.818	1.00152.46	6
ATOM	8492	C	GLY	C	652	14.562	97.304	16.623	1.00149.73	6
ATOM	8493	O	GLY	C	652	13.796	96.341	16.693	1.00150.26	8
ATOM	8494	N	ASP	C	653	15.254	97.600	15.523	1.00 75.23	7
ATOM	8495	CA	ASP	C	653	15.172	96.778	14.315	1.00 70.01	6
ATOM	8496	CB	ASP	C	653	15.286	97.659	13.068	1.00 49.97	6
ATOM	8497	CG	ASP	C	653	16.723	97.983	12.711	1.00 49.50	6
ATOM	8498	OD1	ASP	C	653	17.467	98.489	13.582	1.00 49.55	8
ATOM	8499	OD2	ASP	C	653	17.109	97.725	11.551	1.00 49.99	8
ATOM	8500	C	ASP	C	653	16.320	95.763	14.359	1.00 66.17	6
ATOM	8501	O	ASP	C	653	17.014	95.529	13.366	1.00 64.12	8
ATOM	8502	N	LEU	C	654	16.512	95.170	15.533	1.00 78.22	7
ATOM	8503	CA	LEU	C	654	17.566	94.195	15.721	1.00 75.71	6

ATOM	8504	CB	LEU	C	654	17.319	93.346	16.968	1.00	44.26	6
ATOM	8505	CG	LEU	C	654	18.210	92.105	17.131	1.00	43.81	6
ATOM	8506	CD1	LEU	C	654	19.657	92.490	16.975	1.00	43.96	6
ATOM	8507	CD2	LEU	C	654	17.978	91.472	18.485	1.00	43.72	6
ATOM	8508	C	LEU	C	654	17.693	93.285	14.524	1.00	73.51	6
ATOM	8509	O	LEU	C	654	18.497	93.545	13.630	1.00	74.58	8
ATOM	8510	N	LEU	C	655	16.890	92.229	14.494	1.00	56.02	7
ATOM	8511	CA	LEU	C	655	16.978	91.285	13.399	1.00	52.20	6
ATOM	8512	CB	LEU	C	655	17.115	92.045	12.060	1.00	25.83	6
ATOM	8513	CG	LEU	C	655	17.371	91.406	10.685	1.00	22.71	6
ATOM	8514	CD1	LEU	C	655	16.407	91.979	9.681	1.00	22.40	6
ATOM	8515	CD2	LEU	C	655	18.773	91.694	10.207	1.00	19.92	6
ATOM	8516	C	LEU	C	655	18.233	90.473	13.713	1.00	51.40	6
ATOM	8517	O	LEU	C	655	19.317	90.811	13.256	1.00	52.89	8
ATOM	8518	N	ALA	C	656	18.084	89.435	14.538	1.00	38.13	7
ATOM	8519	CA	ALA	C	656	19.194	88.547	14.917	1.00	36.10	6
ATOM	8520	CB	ALA	C	656	19.857	87.985	13.654	1.00	122.83	6
ATOM	8521	C	ALA	C	656	20.266	89.151	15.842	1.00	34.39	6
ATOM	8522	O	ALA	C	656	20.908	90.151	15.507	1.00	33.57	8
ATOM	8523	N	ASP	C	657	20.466	88.518	16.998	1.00	38.96	7
ATOM	8524	CA	ASP	C	657	21.441	88.981	17.980	1.00	37.30	6
ATOM	8525	CB	ASP	C	657	21.193	88.353	19.355	1.00	27.97	6
ATOM	8526	CG	ASP	C	657	20.259	89.188	20.226	1.00	27.28	6
ATOM	8527	OD1	ASP	C	657	20.411	90.432	20.260	1.00	24.24	8
ATOM	8528	OD2	ASP	C	657	19.379	88.596	20.889	1.00	27.26	8
ATOM	8529	C	ASP	C	657	22.881	88.732	17.602	1.00	37.25	6
ATOM	8530	O	ASP	C	657	23.247	88.787	16.439	1.00	37.78	8
ATOM	8531	N	GLY	C	658	23.701	88.475	18.608	1.00	64.11	7
ATOM	8532	CA	GLY	C	658	25.104	88.240	18.365	1.00	65.39	6
ATOM	8533	C	GLY	C	658	25.714	87.456	19.502	1.00	65.46	6
ATOM	8534	O	GLY	C	658	25.029	86.666	20.150	1.00	65.70	8
ATOM	8535	N	PRO	C	659	27.007	87.663	19.781	1.00	30.43	7
ATOM	8536	CD	PRO	C	659	27.972	88.389	18.941	1.00	54.09	6
ATOM	8537	CA	PRO	C	659	27.702	86.958	20.853	1.00	30.48	6
ATOM	8538	CB	PRO	C	659	29.132	86.917	20.335	1.00	52.79	6
ATOM	8539	CG	PRO	C	659	29.266	88.245	19.723	1.00	54.10	6
ATOM	8540	C	PRO	C	659	27.607	87.532	22.276	1.00	31.00	6
ATOM	8541	O	PRO	C	659	28.504	87.335	23.090	1.00	29.62	8
ATOM	8542	N	ALA	C	660	26.536	88.230	22.602	1.00	77.18	7
ATOM	8543	CA	ALA	C	660	26.448	88.742	23.954	1.00	78.37	6
ATOM	8544	CB	ALA	C	660	27.750	89.379	24.366	1.00	13.87	6
ATOM	8545	C	ALA	C	660	25.331	89.730	24.102	1.00	78.71	6
ATOM	8546	O	ALA	C	660	25.219	90.387	25.126	1.00	79.59	8
ATOM	8547	N	SER	C	661	24.504	89.849	23.079	1.00	42.03	7
ATOM	8548	CA	SER	C	661	23.391	90.763	23.172	1.00	42.57	6
ATOM	8549	CB	SER	C	661	23.083	91.354	21.808	1.00	54.64	6
ATOM	8550	OG	SER	C	661	22.727	90.321	20.919	1.00	57.11	8
ATOM	8551	C	SER	C	661	22.188	89.979	23.675	1.00	41.98	6
ATOM	8552	O	SER	C	661	21.934	88.861	23.231	1.00	41.17	8
ATOM	8553	N	GLU	C	662	21.477	90.557	24.633	1.00	66.98	7
ATOM	8554	CA	GLU	C	662	20.268	89.950	25.182	1.00	66.51	6
ATOM	8555	CB	GLU	C	662	20.123	90.309	26.672	1.00	53.91	6
ATOM	8556	CG	GLU	C	662	18.766	90.005	27.356	1.00	53.80	6
ATOM	8557	CD	GLU	C	662	18.369	88.542	27.318	1.00	53.96	6
ATOM	8558	OE1	GLU	C	662	17.677	88.087	28.258	1.00	54.83	8
ATOM	8559	OE2	GLU	C	662	18.733	87.852	26.343	1.00	53.54	8

ATOM	8560	C	GLU	C	662	19.181	90.611	24.355	1.00	65.72	6
ATOM	8561	O	GLU	C	662	18.189	91.112	24.875	1.00	65.71	8
ATOM	8562	N	GLU	C	663	19.409	90.616	23.051	1.00	39.28	7
ATOM	8563	CA	GLU	C	663	18.510	91.226	22.100	1.00	38.54	6
ATOM	8564	CB	GLU	C	663	17.065	91.104	22.557	1.00	54.30	6
ATOM	8565	CG	GLU	C	663	16.650	89.694	22.870	1.00	55.06	6
ATOM	8566	CD	GLU	C	663	15.207	89.626	23.282	1.00	54.67	6
ATOM	8567	OE1	GLU	C	663	14.359	90.093	22.495	1.00	55.92	8
ATOM	8568	OE2	GLU	C	663	14.920	89.118	24.387	1.00	53.70	8
ATOM	8569	C	GLU	C	663	18.891	92.686	21.983	1.00	38.12	6
ATOM	8570	O	GLU	C	663	18.158	93.564	22.431	1.00	38.14	8
ATOM	8571	N	GLY	C	664	20.051	92.939	21.385	1.00	75.46	7
ATOM	8572	CA	GLY	C	664	20.519	94.304	21.209	1.00	74.14	6
ATOM	8573	C	GLY	C	664	21.054	94.929	22.487	1.00	73.09	6
ATOM	8574	O	GLY	C	664	21.554	96.057	22.474	1.00	73.85	8
ATOM	8575	N	PHE	C	665	20.950	94.195	23.591	1.00	37.20	7
ATOM	8576	CA	PHE	C	665	21.421	94.676	24.883	1.00	34.13	6
ATOM	8577	CB	PHE	C	665	20.357	94.427	25.940	1.00	42.35	6
ATOM	8578	CG	PHE	C	665	19.212	95.380	25.881	1.00	43.12	6
ATOM	8579	CD1	PHE	C	665	17.948	94.980	26.299	1.00	44.68	6
ATOM	8580	CD2	PHE	C	665	19.400	96.688	25.427	1.00	42.37	6
ATOM	8581	CE1	PHE	C	665	16.882	95.867	26.266	1.00	45.21	6
ATOM	8582	CE2	PHE	C	665	18.352	97.585	25.388	1.00	41.86	6
ATOM	8583	CZ	PHE	C	665	17.085	97.184	25.805	1.00	44.49	6
ATOM	8584	C	PHE	C	665	22.685	93.970	25.301	1.00	31.94	6
ATOM	8585	O	PHE	C	665	22.614	92.854	25.796	1.00	31.91	8
ATOM	8586	N	LEU	C	666	23.837	94.604	25.108	1.00	26.18	7
ATOM	8587	CA	LEU	C	666	25.097	93.970	25.491	1.00	25.71	6
ATOM	8588	CB	LEU	C	666	26.209	94.998	25.727	1.00	31.13	6
ATOM	8589	CG	LEU	C	666	27.517	94.552	26.401	1.00	29.22	6
ATOM	8590	CD1	LEU	C	666	28.022	93.288	25.774	1.00	29.99	6
ATOM	8591	CD2	LEU	C	666	28.543	95.671	26.276	1.00	27.86	6
ATOM	8592	C	LEU	C	666	24.825	93.259	26.781	1.00	24.91	6
ATOM	8593	O	LEU	C	666	24.372	93.879	27.742	1.00	23.84	8
ATOM	8594	N	ALA	C	667	25.085	91.955	26.775	1.00	60.95	7
ATOM	8595	CA	ALA	C	667	24.881	91.069	27.916	1.00	60.19	6
ATOM	8596	CB	ALA	C	667	23.666	90.197	27.670	1.00	13.87	6
ATOM	8597	C	ALA	C	667	26.131	90.212	28.047	1.00	59.25	6
ATOM	8598	O	ALA	C	667	26.208	89.109	27.512	1.00	59.69	8
ATOM	8599	N	LEU	C	668	27.114	90.739	28.758	1.00	28.60	7
ATOM	8600	CA	LEU	C	668	28.371	90.056	28.944	1.00	25.65	6
ATOM	8601	CB	LEU	C	668	29.358	91.001	29.571	1.00	13.87	6
ATOM	8602	CG	LEU	C	668	29.496	92.156	28.596	1.00	13.87	6
ATOM	8603	CD1	LEU	C	668	30.270	93.297	29.228	1.00	13.87	6
ATOM	8604	CD2	LEU	C	668	30.164	91.636	27.337	1.00	13.87	6
ATOM	8605	C	LEU	C	668	28.238	88.824	29.780	1.00	26.32	6
ATOM	8606	O	LEU	C	668	28.695	87.762	29.392	1.00	26.84	8
ATOM	8607	N	GLY	C	669	27.614	88.951	30.937	1.00	22.74	7
ATOM	8608	CA	GLY	C	669	27.442	87.785	31.780	1.00	23.73	6
ATOM	8609	C	GLY	C	669	25.982	87.575	32.103	1.00	23.58	6
ATOM	8610	O	GLY	C	669	25.115	88.218	31.525	1.00	21.58	8
ATOM	8611	N	GLN	C	670	25.703	86.669	33.024	1.00	20.32	7
ATOM	8612	CA	GLN	C	670	24.336	86.407	33.418	1.00	22.32	6
ATOM	8613	CB	GLN	C	670	24.067	84.927	33.456	1.00	46.85	6
ATOM	8614	CG	GLN	C	670	24.178	84.247	32.149	1.00	49.88	6
ATOM	8615	CD	GLN	C	670	23.795	82.812	32.291	1.00	51.68	6



ATOM	8616	OE1	GLN	C	670	24.560	82.000	32.824	1.00	52.07	8
ATOM	8617	NE2	GLN	C	670	22.587	82.483	31.850	1.00	53.08	7
ATOM	8618	C	GLN	C	670	24.157	86.928	34.810	1.00	22.85	6
ATOM	8619	O	GLN	C	670	25.033	86.728	35.646	1.00	23.26	8
ATOM	8620	N	ASN	C	671	23.028	87.587	35.062	1.00	32.84	7
ATOM	8621	CA	ASN	C	671	22.739	88.117	36.394	1.00	33.83	6
ATOM	8622	CB	ASN	C	671	21.971	89.454	36.329	1.00	36.11	6
ATOM	8623	CG	ASN	C	671	20.866	89.458	35.293	1.00	37.42	6
ATOM	8624	OD1	ASN	C	671	20.053	88.538	35.225	1.00	38.52	8
ATOM	8625	ND2	ASN	C	671	20.823	90.512	34.489	1.00	36.92	7
ATOM	8626	C	ASN	C	671	21.959	87.093	37.197	1.00	32.30	6
ATOM	8627	O	ASN	C	671	21.011	86.479	36.713	1.00	30.24	8
ATOM	8628	N	VAL	C	672	22.377	86.897	38.435	1.00	40.81	7
ATOM	8629	CA	VAL	C	672	21.708	85.924	39.253	1.00	40.63	6
ATOM	8630	CB	VAL	C	672	22.535	84.636	39.314	1.00	34.74	6
ATOM	8631	CG1	VAL	C	672	23.565	84.694	40.436	1.00	34.96	6
ATOM	8632	CG2	VAL	C	672	21.609	83.474	39.443	1.00	35.10	6
ATOM	8633	C	VAL	C	672	21.419	86.452	40.646	1.00	40.17	6
ATOM	8634	O	VAL	C	672	21.634	87.631	40.928	1.00	41.23	8
ATOM	8635	N	LEU	C	673	20.924	85.579	41.514	1.00	22.87	7
ATOM	8636	CA	LEU	C	673	20.576	85.979	42.868	1.00	22.05	6
ATOM	8637	CB	LEU	C	673	19.217	85.357	43.238	1.00	34.54	6
ATOM	8638	CG	LEU	C	673	18.323	85.858	44.377	1.00	32.29	6
ATOM	8639	CD1	LEU	C	673	16.967	86.182	43.789	1.00	29.25	6
ATOM	8640	CD2	LEU	C	673	18.189	84.800	45.481	1.00	32.17	6
ATOM	8641	C	LEU	C	673	21.660	85.572	43.865	1.00	21.61	6
ATOM	8642	O	LEU	C	673	22.020	84.399	43.978	1.00	21.08	8
ATOM	8643	N	VAL	C	674	22.180	86.568	44.572	1.00	13.87	7
ATOM	8644	CA	VAL	C	674	23.220	86.383	45.572	1.00	13.87	6
ATOM	8645	CB	VAL	C	674	24.458	87.262	45.262	1.00	30.66	6
ATOM	8646	CG1	VAL	C	674	24.017	88.640	44.823	1.00	33.54	6
ATOM	8647	CG2	VAL	C	674	25.342	87.393	46.491	1.00	30.32	6
ATOM	8648	C	VAL	C	674	22.686	86.782	46.925	1.00	13.87	6
ATOM	8649	O	VAL	C	674	21.602	87.325	47.043	1.00	13.87	8
ATOM	8650	N	ALA	C	675	23.455	86.498	47.954	1.00	21.92	7
ATOM	8651	CA	ALA	C	675	23.078	86.855	49.301	1.00	22.72	6
ATOM	8652	CB	ALA	C	675	22.341	85.711	49.971	1.00	135.95	6
ATOM	8653	C	ALA	C	675	24.433	87.040	49.915	1.00	22.35	6
ATOM	8654	O	ALA	C	675	25.244	86.122	49.885	1.00	23.65	8
ATOM	8655	N	ILE	C	676	24.699	88.233	50.433	1.00	18.20	7
ATOM	8656	CA	ILE	C	676	25.986	88.502	51.025	1.00	16.01	6
ATOM	8657	CB	ILE	C	676	26.191	89.988	51.264	1.00	13.87	6
ATOM	8658	CG2	ILE	C	676	27.531	90.209	51.895	1.00	13.87	6
ATOM	8659	CG1	ILE	C	676	26.176	90.749	49.937	1.00	13.87	6
ATOM	8660	CD1	ILE	C	676	24.804	91.136	49.467	1.00	13.87	6
ATOM	8661	C	ILE	C	676	26.031	87.764	52.330	1.00	15.94	6
ATOM	8662	O	ILE	C	676	24.997	87.431	52.860	1.00	16.67	8
ATOM	8663	N	MET	C	677	27.232	87.475	52.812	1.00	23.08	7
ATOM	8664	CA	MET	C	677	27.442	86.777	54.073	1.00	23.84	6
ATOM	8665	CB	MET	C	677	26.183	86.042	54.536	1.00	21.85	6
ATOM	8666	CG	MET	C	677	25.858	84.812	53.737	1.00	20.37	6
ATOM	8667	SD	MET	C	677	24.471	83.914	54.420	1.00	21.77	16
ATOM	8668	CE	MET	C	677	25.130	83.561	56.108	1.00	20.08	6
ATOM	8669	C	MET	C	677	28.548	85.762	53.918	1.00	26.58	6
ATOM	8670	O	MET	C	677	28.632	85.079	52.905	1.00	28.10	8
ATOM	8671	N	PRO	C	678	29.425	85.650	54.918	1.00	51.11	7

ATOM	8672	CD	PRO	C	678	29.440	86.280	56.251	1.00	13.87	6
ATOM	8673	CA	PRO	C	678	30.496	84.658	54.772	1.00	53.91	6
ATOM	8674	CB	PRO	C	678	31.322	84.861	56.035	1.00	14.90	6
ATOM	8675	CG	PRO	C	678	30.264	85.309	57.055	1.00	13.87	6
ATOM	8676	C	PRO	C	678	29.846	83.287	54.740	1.00	56.46	6
ATOM	8677	O	PRO	C	678	28.678	83.171	55.113	1.00	59.26	8
ATOM	8678	N	PHE	C	679	30.565	82.260	54.288	1.00	30.38	7
ATOM	8679	CA	PHE	C	679	29.992	80.909	54.297	1.00	29.12	6
ATOM	8680	CB	PHE	C	679	29.492	80.494	52.920	1.00	41.93	6
ATOM	8681	CG	PHE	C	679	28.438	79.436	52.977	1.00	43.64	6
ATOM	8682	CD1	PHE	C	679	27.099	79.782	53.094	1.00	44.45	6
ATOM	8683	CD2	PHE	C	679	28.789	78.092	52.995	1.00	44.04	6
ATOM	8684	CE1	PHE	C	679	26.130	78.807	53.233	1.00	44.58	6
ATOM	8685	CE2	PHE	C	679	27.827	77.107	53.133	1.00	42.72	6
ATOM	8686	CZ	PHE	C	679	26.494	77.462	53.254	1.00	43.82	6
ATOM	8687	C	PHE	C	679	30.986	79.868	54.794	1.00	28.07	6
ATOM	8688	O	PHE	C	679	31.831	79.403	54.042	1.00	28.71	8
ATOM	8689	N	ASP	C	680	30.865	79.499	56.064	1.00	26.45	7
ATOM	8690	CA	ASP	C	680	31.767	78.537	56.698	1.00	27.76	6
ATOM	8691	CB	ASP	C	680	31.149	77.129	56.716	1.00	62.51	6
ATOM	8692	CG	ASP	C	680	30.244	76.894	57.930	1.00	66.52	6
ATOM	8693	OD1	ASP	C	680	29.046	77.257	57.886	1.00	69.84	8
ATOM	8694	OD2	ASP	C	680	30.738	76.349	58.940	1.00	67.51	8
ATOM	8695	C	ASP	C	680	33.158	78.489	56.073	1.00	26.14	6
ATOM	8696	O	ASP	C	680	33.789	77.442	56.040	1.00	25.67	8
ATOM	8697	N	GLY	C	681	33.630	79.626	55.577	1.00	47.60	7
ATOM	8698	CA	GLY	C	681	34.952	79.673	54.986	1.00	46.00	6
ATOM	8699	C	GLY	C	681	35.135	79.423	53.501	1.00	44.37	6
ATOM	8700	O	GLY	C	681	36.270	79.390	53.012	1.00	44.60	8
ATOM	8701	N	TYR	C	682	34.054	79.251	52.757	1.00	27.30	7
ATOM	8702	CA	TYR	C	682	34.228	79.007	51.341	1.00	24.29	6
ATOM	8703	CB	TYR	C	682	33.100	78.138	50.812	1.00	20.76	6
ATOM	8704	CG	TYR	C	682	33.253	76.754	51.382	1.00	18.89	6
ATOM	8705	CD1	TYR	C	682	34.437	76.051	51.207	1.00	19.01	6
ATOM	8706	CE1	TYR	C	682	34.647	74.844	51.820	1.00	18.22	6
ATOM	8707	CD2	TYR	C	682	32.274	76.193	52.188	1.00	19.31	6
ATOM	8708	CE2	TYR	C	682	32.478	74.975	52.804	1.00	18.87	6
ATOM	8709	CZ	TYR	C	682	33.669	74.306	52.614	1.00	18.22	6
ATOM	8710	OH	TYR	C	682	33.881	73.082	53.198	1.00	18.76	8
ATOM	8711	C	TYR	C	682	34.397	80.260	50.546	1.00	23.01	6
ATOM	8712	O	TYR	C	682	34.791	80.205	49.395	1.00	24.02	8
ATOM	8713	N	ASN	C	683	34.103	81.394	51.169	1.00	13.87	7
ATOM	8714	CA	ASN	C	683	34.280	82.686	50.528	1.00	13.87	6
ATOM	8715	CB	ASN	C	683	32.940	83.456	50.347	1.00	18.87	6
ATOM	8716	CG	ASN	C	683	31.927	83.243	51.489	1.00	18.87	6
ATOM	8717	OD1	ASN	C	683	32.142	82.466	52.412	1.00	19.81	8
ATOM	8718	ND2	ASN	C	683	30.805	83.949	51.405	1.00	18.87	7
ATOM	8719	C	ASN	C	683	35.278	83.448	51.385	1.00	14.52	6
ATOM	8720	O	ASN	C	683	34.929	84.346	52.139	1.00	16.41	8
ATOM	8721	N	PHE	C	684	36.535	83.036	51.282	1.00	13.87	7
ATOM	8722	CA	PHE	C	684	37.633	83.645	52.024	1.00	13.87	6
ATOM	8723	CB	PHE	C	684	38.592	82.577	52.510	1.00	19.24	6
ATOM	8724	CG	PHE	C	684	39.629	83.067	53.478	1.00	18.28	6
ATOM	8725	CD1	PHE	C	684	39.368	83.077	54.846	1.00	17.56	6
ATOM	8726	CD2	PHE	C	684	40.898	83.407	53.035	1.00	17.56	6
ATOM	8727	CE1	PHE	C	684	40.355	83.402	55.755	1.00	17.56	6

ATOM	8728	CE2	PHE	C	684	41.888	83.733	53.937	1.00	17.92	6
ATOM	8729	CZ	PHE	C	684	41.618	83.726	55.303	1.00	17.56	6
ATOM	8730	C	PHE	C	684	38.375	84.586	51.105	1.00	13.87	6
ATOM	8731	O	PHE	C	684	38.571	84.314	49.931	1.00	13.87	8
ATOM	8732	N	GLU	C	685	38.801	85.701	51.657	1.00	69.69	7
ATOM	8733	CA	GLU	C	685	39.490	86.678	50.855	1.00	72.85	6
ATOM	8734	CB	GLU	C	685	40.741	86.065	50.227	1.00	47.62	6
ATOM	8735	CG	GLU	C	685	41.888	85.969	51.222	1.00	48.90	6
ATOM	8736	CD	GLU	C	685	42.390	87.340	51.685	1.00	50.71	6
ATOM	8737	OE1	GLU	C	685	41.562	88.250	51.920	1.00	50.93	8
ATOM	8738	OE2	GLU	C	685	43.623	87.508	51.830	1.00	52.91	8
ATOM	8739	C	GLU	C	685	38.545	87.217	49.794	1.00	74.22	6
ATOM	8740	O	GLU	C	685	37.999	88.311	49.957	1.00	76.00	8
ATOM	8741	N	ASP	C	686	38.310	86.462	48.728	1.00	55.73	7
ATOM	8742	CA	ASP	C	686	37.428	86.974	47.681	1.00	56.10	6
ATOM	8743	CB	ASP	C	686	38.239	87.893	46.766	1.00	52.07	6
ATOM	8744	CG	ASP	C	686	39.725	87.933	47.142	1.00	52.04	6
ATOM	8745	OD1	ASP	C	686	40.357	86.856	47.286	1.00	50.57	8
ATOM	8746	OD2	ASP	C	686	40.257	89.052	47.293	1.00	51.95	8
ATOM	8747	C	ASP	C	686	36.725	85.893	46.858	1.00	56.69	6
ATOM	8748	O	ASP	C	686	35.956	86.199	45.932	1.00	57.76	8
ATOM	8749	N	ALA	C	687	36.989	84.635	47.211	1.00	81.74	7
ATOM	8750	CA	ALA	C	687	36.405	83.483	46.531	1.00	79.22	6
ATOM	8751	CB	ALA	C	687	37.021	82.221	47.071	1.00	13.87	6
ATOM	8752	C	ALA	C	687	34.884	83.443	46.680	1.00	77.60	6
ATOM	8753	O	ALA	C	687	34.343	83.847	47.709	1.00	77.71	8
ATOM	8754	N	ILE	C	688	34.202	82.951	45.648	1.00	32.24	7
ATOM	8755	CA	ILE	C	688	32.743	82.882	45.646	1.00	29.34	6
ATOM	8756	CB	ILE	C	688	32.141	83.381	44.325	1.00	20.69	6
ATOM	8757	CG2	ILE	C	688	30.903	84.139	44.633	1.00	21.41	6
ATOM	8758	CG1	ILE	C	688	33.135	84.247	43.528	1.00	20.26	6
ATOM	8759	CD1	ILE	C	688	33.379	85.668	44.055	1.00	19.57	6
ATOM	8760	C	ILE	C	688	32.247	81.460	45.804	1.00	28.39	6
ATOM	8761	O	ILE	C	688	32.988	80.523	45.531	1.00	29.02	8
ATOM	8762	N	VAL	C	689	30.993	81.301	46.226	1.00	28.34	7
ATOM	8763	CA	VAL	C	689	30.396	79.972	46.380	1.00	26.56	6
ATOM	8764	CB	VAL	C	689	29.970	79.721	47.826	1.00	13.87	6
ATOM	8765	CG1	VAL	C	689	29.369	78.330	47.957	1.00	13.87	6
ATOM	8766	CG2	VAL	C	689	31.178	79.845	48.744	1.00	13.87	6
ATOM	8767	C	VAL	C	689	29.193	79.776	45.446	1.00	27.03	6
ATOM	8768	O	VAL	C	689	28.212	80.493	45.520	1.00	27.57	8
ATOM	8769	N	ILE	C	690	29.279	78.794	44.563	1.00	13.87	7
ATOM	8770	CA	ILE	C	690	28.229	78.541	43.595	1.00	13.87	6
ATOM	8771	CB	ILE	C	690	28.802	77.930	42.270	1.00	31.31	6
ATOM	8772	CG2	ILE	C	690	27.739	77.912	41.192	1.00	33.95	6
ATOM	8773	CG1	ILE	C	690	30.008	78.717	41.757	1.00	32.30	6
ATOM	8774	CD1	ILE	C	690	29.702	80.126	41.285	1.00	34.94	6
ATOM	8775	C	ILE	C	690	27.260	77.523	44.144	1.00	13.87	6
ATOM	8776	O	ILE	C	690	27.636	76.695	44.955	1.00	13.87	8
ATOM	8777	N	SER	C	691	26.008	77.601	43.707	1.00	16.77	7
ATOM	8778	CA	SER	C	691	24.981	76.627	44.072	1.00	17.83	6
ATOM	8779	CB	SER	C	691	23.642	77.276	44.352	1.00	58.34	6
ATOM	8780	OG	SER	C	691	22.614	76.429	43.841	1.00	60.63	8
ATOM	8781	C	SER	C	691	24.816	75.815	42.805	1.00	17.19	6
ATOM	8782	O	SER	C	691	24.414	76.347	41.770	1.00	15.71	8
ATOM	8783	N	GLU	C	692	25.129	74.534	42.885	1.00	13.87	7

ATOM	8784	CA	GLU	C	692	25.048	73.667	41.729	1.00	15.29	6
ATOM	8785	CB	GLU	C	692	24.766	72.244	42.184	1.00	40.04	6
ATOM	8786	CG	GLU	C	692	24.620	71.239	41.067	1.00	42.87	6
ATOM	8787	CD	GLU	C	692	24.552	69.838	41.610	1.00	44.48	6
ATOM	8788	OE1	GLU	C	692	23.552	69.515	42.291	1.00	44.52	8
ATOM	8789	OE2	GLU	C	692	25.511	69.070	41.376	1.00	44.97	8
ATOM	8790	C	GLU	C	692	23.985	74.103	40.733	1.00	17.14	6
ATOM	8791	O	GLU	C	692	24.214	74.076	39.521	1.00	15.79	8
ATOM	8792	N	GLU	C	693	22.831	74.518	41.256	1.00	14.72	7
ATOM	8793	CA	GLU	C	693	21.709	74.923	40.422	1.00	17.95	6
ATOM	8794	CB	GLU	C	693	20.794	75.886	41.174	1.00	63.29	6
ATOM	8795	CG	GLU	C	693	19.366	75.867	40.666	1.00	67.04	6
ATOM	8796	CD	GLU	C	693	18.700	74.534	40.937	1.00	69.46	6
ATOM	8797	OE1	GLU	C	693	19.240	73.494	40.511	1.00	70.03	8
ATOM	8798	OE2	GLU	C	693	17.638	74.516	41.586	1.00	70.28	8
ATOM	8799	C	GLU	C	693	22.221	75.584	39.163	1.00	19.53	6
ATOM	8800	O	GLU	C	693	21.937	75.137	38.057	1.00	19.06	8
ATOM	8801	N	LEU	C	694	23.000	76.644	39.340	1.00	62.57	7
ATOM	8802	CA	LEU	C	694	23.547	77.362	38.206	1.00	65.09	6
ATOM	8803	CB	LEU	C	694	24.760	78.181	38.638	1.00	42.25	6
ATOM	8804	CG	LEU	C	694	24.343	79.563	39.117	1.00	42.71	6
ATOM	8805	CD1	LEU	C	694	25.570	80.411	39.420	1.00	42.10	6
ATOM	8806	CD2	LEU	C	694	23.490	80.205	38.027	1.00	41.62	6
ATOM	8807	C	LEU	C	694	23.927	76.394	37.108	1.00	66.05	6
ATOM	8808	O	LEU	C	694	23.478	76.515	35.966	1.00	67.07	8
ATOM	8809	N	LEU	C	695	24.744	75.415	37.462	1.00	16.69	7
ATOM	8810	CA	LEU	C	695	25.160	74.434	36.497	1.00	17.08	6
ATOM	8811	CB	LEU	C	695	26.129	73.458	37.146	1.00	22.44	6
ATOM	8812	CG	LEU	C	695	27.368	74.219	37.611	1.00	21.41	6
ATOM	8813	CD1	LEU	C	695	28.391	73.268	38.217	1.00	20.97	6
ATOM	8814	CD2	LEU	C	695	27.953	74.960	36.421	1.00	21.28	6
ATOM	8815	C	LEU	C	695	23.944	73.710	35.943	1.00	19.27	6
ATOM	8816	O	LEU	C	695	23.657	73.802	34.752	1.00	19.69	8
ATOM	8817	N	LYS	C	696	23.215	73.008	36.805	1.00	49.24	7
ATOM	8818	CA	LYS	C	696	22.035	72.270	36.367	1.00	50.88	6
ATOM	8819	CB	LYS	C	696	21.125	71.970	37.552	1.00	68.54	6
ATOM	8820	CG	LYS	C	696	21.725	71.037	38.581	1.00	70.86	6
ATOM	8821	CD	LYS	C	696	20.687	70.659	39.632	1.00	72.79	6
ATOM	8822	CE	LYS	C	696	21.212	69.583	40.572	1.00	74.27	6
ATOM	8823	NZ	LYS	C	696	20.177	69.068	41.512	1.00	74.29	7
ATOM	8824	C	LYS	C	696	21.244	73.007	35.288	1.00	51.81	6
ATOM	8825	O	LYS	C	696	20.695	72.375	34.388	1.00	51.36	8
ATOM	8826	N	ARG	C	697	21.194	74.337	35.362	1.00	55.92	7
ATOM	8827	CA	ARG	C	697	20.452	75.116	34.369	1.00	57.84	6
ATOM	8828	CB	ARG	C	697	19.665	76.260	35.031	1.00	98.96	6
ATOM	8829	CG	ARG	C	697	18.404	76.647	34.243	1.00	104.05	6
ATOM	8830	CD	ARG	C	697	17.797	77.996	34.653	1.00	107.95	6
ATOM	8831	NE	ARG	C	697	16.557	78.280	33.919	1.00	109.57	7
ATOM	8832	CZ	ARG	C	697	15.961	79.469	33.870	1.00	108.72	6
ATOM	8833	NH1	ARG	C	697	16.486	80.508	34.505	1.00	109.06	7
ATOM	8834	NH2	ARG	C	697	14.829	79.618	33.197	1.00	107.13	7
ATOM	8835	C	ARG	C	697	21.367	75.685	33.293	1.00	56.05	6
ATOM	8836	O	ARG	C	697	21.037	76.676	32.634	1.00	56.84	8
ATOM	8837	N	ASP	C	698	22.510	75.031	33.112	1.00	28.31	7
ATOM	8838	CA	ASP	C	698	23.501	75.437	32.123	1.00	25.94	6
ATOM	8839	CB	ASP	C	698	23.192	74.808	30.754	1.00	44.98	6

ATOM	8840	CG	ASP	C	698	24.071	73.593	30.449	1.00	46.56	6
ATOM	8841	OD1	ASP	C	698	24.147	72.672	31.296	1.00	48.08	8
ATOM	8842	OD2	ASP	C	698	24.682	73.556	29.359	1.00	46.15	8
ATOM	8843	C	ASP	C	698	23.577	76.948	32.004	1.00	24.33	6
ATOM	8844	O	ASP	C	698	23.360	77.512	30.930	1.00	24.07	8
ATOM	8845	N	PHE	C	699	23.889	77.598	33.121	1.00	75.64	7
ATOM	8846	CA	PHE	C	699	23.998	79.044	33.144	1.00	73.24	6
ATOM	8847	CB	PHE	C	699	23.801	79.581	34.557	1.00	40.01	6
ATOM	8848	CG	PHE	C	699	22.685	80.587	34.670	1.00	39.55	6
ATOM	8849	CD1	PHE	C	699	21.392	80.260	34.279	1.00	38.54	6
ATOM	8850	CD2	PHE	C	699	22.918	81.851	35.186	1.00	39.69	6
ATOM	8851	CE1	PHE	C	699	20.358	81.166	34.403	1.00	36.47	6
ATOM	8852	CE2	PHE	C	699	21.884	82.759	35.310	1.00	38.35	6
ATOM	8853	CZ	PHE	C	699	20.602	82.410	34.916	1.00	37.08	6
ATOM	8854	C	PHE	C	699	25.339	79.500	32.617	1.00	72.56	6
ATOM	8855	O	PHE	C	699	25.542	79.560	31.407	1.00	73.46	8
ATOM	8856	N	TYR	C	700	26.258	79.810	33.524	1.00	56.10	7
ATOM	8857	CA	TYR	C	700	27.577	80.289	33.140	1.00	54.08	6
ATOM	8858	CB	TYR	C	700	28.442	80.485	34.381	1.00	33.38	6
ATOM	8859	CG	TYR	C	700	27.977	81.655	35.201	1.00	31.13	6
ATOM	8860	CD1	TYR	C	700	27.599	81.502	36.537	1.00	30.78	6
ATOM	8861	CE1	TYR	C	700	27.068	82.577	37.255	1.00	28.77	6
ATOM	8862	CD2	TYR	C	700	27.824	82.909	34.615	1.00	30.51	6
ATOM	8863	CE2	TYR	C	700	27.297	83.979	35.324	1.00	28.57	6
ATOM	8864	CZ	TYR	C	700	26.920	83.803	36.628	1.00	27.48	6
ATOM	8865	OH	TYR	C	700	26.357	84.849	37.283	1.00	27.27	8
ATOM	8866	C	TYR	C	700	28.342	79.471	32.115	1.00	53.82	6
ATOM	8867	O	TYR	C	700	29.516	79.732	31.890	1.00	54.29	8
ATOM	8868	N	THR	C	701	27.694	78.497	31.484	1.00	39.84	7
ATOM	8869	CA	THR	C	701	28.366	77.689	30.472	1.00	39.95	6
ATOM	8870	CB	THR	C	701	27.471	76.562	29.956	1.00	20.05	6
ATOM	8871	OG1	THR	C	701	26.281	77.124	29.393	1.00	19.30	8
ATOM	8872	CG2	THR	C	701	27.117	75.610	31.086	1.00	19.72	6
ATOM	8873	C	THR	C	701	28.799	78.533	29.276	1.00	39.81	6
ATOM	8874	O	THR	C	701	28.035	79.360	28.760	1.00	37.90	8
ATOM	8875	N	SER	C	702	30.036	78.304	28.841	1.00	65.25	7
ATOM	8876	CA	SER	C	702	30.621	79.026	27.718	1.00	65.71	6
ATOM	8877	CB	SER	C	702	31.654	80.023	28.236	1.00	87.67	6
ATOM	8878	OG	SER	C	702	32.562	79.384	29.119	1.00	85.70	8
ATOM	8879	C	SER	C	702	31.285	78.059	26.748	1.00	66.12	6

ATOM	8896	NE2	HIS	C	704	35.632	80.328	26.711	1.00	85.87	7
ATOM	8897	C	HIS	C	704	35.716	76.653	22.007	1.00	39.98	6
ATOM	8898	O	HIS	C	704	35.773	75.438	22.233	1.00	39.43	8
ATOM	8899	N	ILE	C	705	36.060	77.197	20.844	1.00	13.87	7
ATOM	8900	CA	ILE	C	705	36.543	76.389	19.746	1.00	13.87	6
ATOM	8901	CB	ILE	C	705	35.701	76.608	18.475	1.00	39.43	6
ATOM	8902	CG2	ILE	C	705	35.011	75.330	18.084	1.00	40.68	6
ATOM	8903	CG1	ILE	C	705	34.654	77.684	18.716	1.00	39.92	6
ATOM	8904	CD1	ILE	C	705	35.261	79.040	18.825	1.00	43.09	6
ATOM	8905	C	ILE	C	705	37.986	76.723	19.439	1.00	13.87	6
ATOM	8906	O	ILE	C	705	38.247	77.786	18.903	1.00	13.87	8
ATOM	8907	N	GLU	C	706	38.905	75.811	19.785	1.00	32.47	7
ATOM	8908	CA	GLU	C	706	40.352	75.951	19.552	1.00	35.06	6
ATOM	8909	CB	GLU	C	706	41.130	75.086	20.545	1.00	76.65	6
ATOM	8910	CG	GLU	C	706	42.651	75.117	20.368	1.00	81.21	6
ATOM	8911	CD	GLU	C	706	43.317	76.323	21.016	1.00	83.25	6
ATOM	8912	OE1	GLU	C	706	43.281	76.437	22.262	1.00	84.09	8
ATOM	8913	OE2	GLU	C	706	43.885	77.157	20.279	1.00	83.41	8
ATOM	8914	C	GLU	C	706	40.718	75.524	18.121	1.00	35.08	6
ATOM	8915	O	GLU	C	706	39.916	74.867	17.446	1.00	35.64	8
ATOM	8916	N	ARG	C	707	41.923	75.896	17.672	1.00	30.19	7
ATOM	8917	CA	ARG	C	707	42.413	75.584	16.321	1.00	30.93	6
ATOM	8918	CB	ARG	C	707	42.520	76.849	15.482	1.00	53.21	6
ATOM	8919	CG	ARG	C	707	43.605	77.795	15.963	1.00	56.91	6
ATOM	8920	CD	ARG	C	707	43.655	79.070	15.149	1.00	61.47	6
ATOM	8921	NE	ARG	C	707	44.493	78.952	13.961	1.00	65.82	7
ATOM	8922	CZ	ARG	C	707	44.377	79.742	12.896	1.00	68.23	6
ATOM	8923	NH1	ARG	C	707	43.455	80.697	12.875	1.00	68.81	7
ATOM	8924	NH2	ARG	C	707	45.182	79.586	11.853	1.00	69.19	7
ATOM	8925	C	ARG	C	707	43.796	74.991	16.393	1.00	30.73	6
ATOM	8926	O	ARG	C	707	44.642	75.525	17.097	1.00	30.61	8
ATOM	8927	N	TYR	C	708	44.040	73.916	15.648	1.00	41.08	7
ATOM	8928	CA	TYR	C	708	45.353	73.271	15.649	1.00	42.17	6
ATOM	8929	CB	TYR	C	708	45.212	71.843	16.148	1.00	27.21	6
ATOM	8930	CG	TYR	C	708	44.688	71.803	17.549	1.00	24.62	6
ATOM	8931	CD1	TYR	C	708	43.339	71.616	17.811	1.00	24.56	6
ATOM	8932	CE1	TYR	C	708	42.867	71.642	19.108	1.00	25.28	6
ATOM	8933	CD2	TYR	C	708	45.542	72.014	18.614	1.00	23.38	6
ATOM	8934	CE2	TYR	C	708	45.085	72.046	19.906	1.00	23.76	6
ATOM	8935	CZ	TYR	C	708	43.758	71.858	20.156	1.00	25.23	6
ATOM	8936	OH	TYR	C	708	43.348	71.865	21.474	1.00	27.05	8
ATOM	8937	C	TYR	C	708	45.989	73.306	14.266	1.00	44.32	6
ATOM	8938	O	TYR	C	708	45.282	73.429	13.271	1.00	45.03	8
ATOM	8939	N	GLU	C	709	47.308	73.173	14.180	1.00	59.72	7
ATOM	8940	CA	GLU	C	709	47.932	73.269	12.870	1.00	62.76	6
ATOM	8941	CB	GLU	C	709	48.237	74.740	12.613	1.00	68.42	6
ATOM	8942	CG	GLU	C	709	48.738	75.053	11.231	1.00	71.85	6
ATOM	8943	CD	GLU	C	709	49.304	76.451	11.139	1.00	73.03	6
ATOM	8944	OE1	GLU	C	709	50.381	76.692	11.733	1.00	74.70	8
ATOM	8945	OE2	GLU	C	709	48.672	77.308	10.480	1.00	73.65	8
ATOM	8946	C	GLU	C	709	49.199	72.448	12.619	1.00	64.91	6
ATOM	8947	O	GLU	C	709	50.171	72.572	13.360	1.00	67.17	8
ATOM	8948	N	ILE	C	710	49.202	71.623	11.570	1.00	28.62	7
ATOM	8949	CA	ILE	C	710	50.392	70.833	11.233	1.00	29.55	6
ATOM	8950	CB	ILE	C	710	50.149	69.317	11.163	1.00	52.72	6
ATOM	8951	CG2	ILE	C	710	51.454	68.583	11.256	1.00	50.81	6

ATOM	8952	CG1	ILE	C	710	49.253	68.869	12.298	1.00	55.07	6
ATOM	8953	CD1	ILE	C	710	47.826	69.266	12.079	1.00	58.93	6
ATOM	8954	C	ILE	C	710	50.744	71.246	9.833	1.00	30.82	6
ATOM	8955	O	ILE	C	710	49.868	71.319	8.973	1.00	30.33	8
ATOM	8956	N	GLU	C	711	52.024	71.515	9.605	1.00	72.44	7
ATOM	8957	CA	GLU	C	711	52.501	71.913	8.288	1.00	74.96	6
ATOM	8958	CB	GLU	C	711	53.389	73.162	8.387	1.00	90.20	6
ATOM	8959	CG	GLU	C	711	52.666	74.462	8.725	1.00	94.40	6
ATOM	8960	CD	GLU	C	711	53.627	75.600	9.069	1.00	97.08	6
ATOM	8961	OE1	GLU	C	711	54.455	75.974	8.207	1.00	98.13	8
ATOM	8962	OE2	GLU	C	711	53.553	76.120	10.208	1.00	97.93	8
ATOM	8963	C	GLU	C	711	53.310	70.774	7.676	1.00	75.37	6
ATOM	8964	O	GLU	C	711	54.193	70.211	8.325	1.00	75.49	8
ATOM	8965	N	ALA	C	712	52.991	70.433	6.430	1.00	25.69	7
ATOM	8966	CA	ALA	C	712	53.703	69.393	5.702	1.00	26.17	6
ATOM	8967	CB	ALA	C	712	52.773	68.741	4.709	1.00	74.02	6
ATOM	8968	C	ALA	C	712	54.897	70.036	4.978	1.00	27.04	6
ATOM	8969	O	ALA	C	712	54.767	70.553	3.866	1.00	26.68	8
ATOM	8970	N	ARG	C	713	56.053	70.003	5.636	1.00	51.20	7
ATOM	8971	CA	ARG	C	713	57.290	70.579	5.117	1.00	53.11	6
ATOM	8972	CB	ARG	C	713	58.366	70.539	6.207	1.00	108.41	6
ATOM	8973	CG	ARG	C	713	58.098	71.496	7.366	1.00	111.69	6
ATOM	8974	CD	ARG	C	713	58.397	72.927	6.942	1.00	114.40	6
ATOM	8975	NE	ARG	C	713	57.790	73.928	7.817	1.00	116.47	7
ATOM	8976	CZ	ARG	C	713	57.986	75.241	7.699	1.00	116.60	6
ATOM	8977	NH1	ARG	C	713	58.780	75.715	6.744	1.00	116.86	7
ATOM	8978	NH2	ARG	C	713	57.372	76.085	8.520	1.00	115.66	7
ATOM	8979	C	ARG	C	713	57.788	69.890	3.851	1.00	53.27	6
ATOM	8980	O	ARG	C	713	56.987	69.472	3.020	1.00	52.90	8
ATOM	8981	N	ASP	C	714	59.106	69.771	3.699	1.00	87.14	7
ATOM	8982	CA	ASP	C	714	59.674	69.145	2.502	1.00	87.63	6
ATOM	8983	CB	ASP	C	714	59.626	70.149	1.338	1.00	103.53	6
ATOM	8984	CG	ASP	C	714	59.136	69.529	0.035	1.00	104.91	6
ATOM	8985	OD1	ASP	C	714	59.789	68.587	-0.462	1.00	107.02	8
ATOM	8986	OD2	ASP	C	714	58.099	69.989	-0.497	1.00	105.51	8
ATOM	8987	C	ASP	C	714	61.118	68.643	2.695	1.00	86.74	6
ATOM	8988	O	ASP	C	714	61.704	68.070	1.780	1.00	86.18	8
ATOM	8989	N	THR	C	715	61.672	68.869	3.885	1.00	55.98	7
ATOM	8990	CA	THR	C	715	63.033	68.463	4.256	1.00	55.80	6
ATOM	8991	CB	THR	C	715	63.066	67.954	5.709	1.00	148.26	6
ATOM	8992	OG1	THR	C							

ATOM	9008	CG	LEU	C	717	65.909	63.963	6.051	1.00	47.94	6
ATOM	9009	CD1	LEU	C	717	65.231	64.441	7.322	1.00	47.23	6
ATOM	9010	CD2	LEU	C	717	67.111	63.086	6.388	1.00	48.12	6
ATOM	9011	C	LEU	C	717	63.702	62.506	3.093	1.00	33.29	6
ATOM	9012	O	LEU	C	717	63.535	61.293	3.222	1.00	33.04	8
ATOM	9013	N	GLY	C	718	62.840	63.288	2.453	1.00	78.89	7
ATOM	9014	CA	GLY	C	718	61.616	62.750	1.890	1.00	77.32	6
ATOM	9015	C	GLY	C	718	60.473	63.676	2.266	1.00	76.02	6
ATOM	9016	O	GLY	C	718	60.290	63.967	3.451	1.00	77.03	8
ATOM	9017	N	PRO	C	719	59.677	64.143	1.289	1.00	28.75	7
ATOM	9018	CD	PRO	C	719	59.532	63.487	-0.017	1.00	61.22	6
ATOM	9019	CA	PRO	C	719	58.551	65.047	1.517	1.00	26.52	6
ATOM	9020	CB	PRO	C	719	57.773	64.939	0.218	1.00	60.27	6
ATOM	9021	CG	PRO	C	719	58.052	63.544	-0.211	1.00	61.08	6
ATOM	9022	C	PRO	C	719	57.705	64.679	2.730	1.00	24.65	6
ATOM	9023	O	PRO	C	719	57.291	63.528	2.888	1.00	23.98	8
ATOM	9024	N	GLU	C	720	57.449	65.675	3.575	1.00	74.17	7
ATOM	9025	CA	GLU	C	720	56.654	65.515	4.791	1.00	72.87	6
ATOM	9026	CB	GLU	C	720	56.977	66.683	5.731	1.00	33.81	6
ATOM	9027	CG	GLU	C	720	56.510	66.482	7.150	1.00	34.95	6
ATOM	9028	CD	GLU	C	720	57.247	67.350	8.159	1.00	35.85	6
ATOM	9029	OE1	GLU	C	720	57.315	68.583	7.975	1.00	37.31	8
ATOM	9030	OE2	GLU	C	720	57.753	66.797	9.158	1.00	37.14	8
ATOM	9031	C	GLU	C	720	55.172	65.519	4.395	1.00	72.23	6
ATOM	9032	O	GLU	C	720	54.634	66.578	4.100	1.00	73.55	8
ATOM	9033	N	ARG	C	721	54.508	64.359	4.402	1.00	13.87	7
ATOM	9034	CA	ARG	C	721	53.105	64.293	3.964	1.00	13.87	6
ATOM	9035	CB	ARG	C	721	53.058	63.421	2.712	1.00	78.27	6
ATOM	9036	CG	ARG	C	721	54.048	62.262	2.741	1.00	82.81	6
ATOM	9037	CD	ARG	C	721	54.002	61.436	1.459	1.00	85.00	6
ATOM	9038	NE	ARG	C	721	54.864	60.258	1.533	1.00	87.32	7
ATOM	9039	CZ	ARG	C	721	54.912	59.309	0.603	1.00	88.92	6
ATOM	9040	NH1	ARG	C	721	54.143	59.402	-0.473	1.00	90.34	7
ATOM	9041	NH2	ARG	C	721	55.727	58.270	0.743	1.00	89.06	7
ATOM	9042	C	ARG	C	721	51.944	63.891	4.917	1.00	13.87	6
ATOM	9043	O	ARG	C	721	52.069	62.980	5.723	1.00	13.87	8
ATOM	9044	N	ILE	C	722	50.807	64.589	4.782	1.00	55.68	7
ATOM	9045	CA	ILE	C	722	49.577	64.366	5.574	1.00	55.53	6
ATOM	9046	CB	ILE	C	722	48.592	65.591	5.476	1.00	24.95	6
ATOM	9047	CG2	ILE	C	722	47.231	65.222	5.956	1.00	24.08	6
ATOM	9048	CG1	ILE	C	722						



ATOM	9064	N	ASP	C	725	47.813	56.713	6.325	1.00	48.22	7
ATOM	9065	CA	ASP	C	725	48.562	55.462	6.465	1.00	50.41	6
ATOM	9066	CB	ASP	C	725	49.056	54.969	5.096	1.00	135.83	6
ATOM	9067	CG	ASP	C	725	49.925	55.994	4.368	1.00	140.29	6
ATOM	9068	OD1	ASP	C	725	50.925	56.472	4.945	1.00	142.55	8
ATOM	9069	OD2	ASP	C	725	49.612	56.313	3.202	1.00	142.25	8
ATOM	9070	C	ASP	C	725	49.753	55.649	7.401	1.00	50.45	6
ATOM	9071	O	ASP	C	725	50.905	55.434	7.018	1.00	49.56	8
ATOM	9072	N	ILE	C	726	49.485	56.040	8.639	1.00	18.04	7
ATOM	9073	CA	ILE	C	726	50.586	56.249	9.564	1.00	19.68	6
ATOM	9074	CB	ILE	C	726	50.171	57.123	10.759	1.00	99.69	6
ATOM	9075	CG2	ILE	C	726	51.412	57.681	11.436	1.00	100.55	6
ATOM	9076	CG1	ILE	C	726	49.311	58.296	10.282	1.00	100.68	6
ATOM	9077	CD1	ILE	C	726	47.898	57.913	9.923	1.00	103.55	6
ATOM	9078	C	ILE	C	726	51.108	54.911	10.068	1.00	20.10	6
ATOM	9079	O	ILE	C	726	50.345	54.066	10.531	1.00	18.78	8
ATOM	9080	N	PRO	C	727	52.427	54.708	9.983	1.00	49.83	7
ATOM	9081	CD	PRO	C	727	53.409	55.723	9.573	1.00	39.86	6
ATOM	9082	CA	PRO	C	727	53.111	53.489	10.409	1.00	52.26	6
ATOM	9083	CB	PRO	C	727	54.585	53.839	10.191	1.00	41.13	6
ATOM	9084	CG	PRO	C	727	54.619	55.306	10.355	1.00	40.83	6
ATOM	9085	C	PRO	C	727	52.833	52.945	11.819	1.00	54.67	6
ATOM	9086	O	PRO	C	727	52.907	53.671	12.813	1.00	54.95	8
ATOM	9087	N	HIS	C	728	52.523	51.650	11.877	1.00	103.53	7
ATOM	9088	CA	HIS	C	728	52.253	50.922	13.119	1.00	106.42	6
ATOM	9089	CB	HIS	C	728	53.554	50.696	13.892	1.00	81.73	6
ATOM	9090	CG	HIS	C	728	54.724	50.396	13.011	1.00	82.69	6
ATOM	9091	CD2	HIS	C	728	56.024	50.764	13.100	1.00	82.73	6
ATOM	9092	ND1	HIS	C	728	54.613	49.654	11.854	1.00	83.03	7
ATOM	9093	CE1	HIS	C	728	55.794	49.581	11.266	1.00	83.77	6
ATOM	9094	NE2	HIS	C	728	56.668	50.246	12.001	1.00	83.57	7
ATOM	9095	C	HIS	C	728	51.229	51.570	14.034	1.00	107.81	6
ATOM	9096	O	HIS	C	728	50.869	51.013	15.072	1.00	107.76	8
ATOM	9097	N	LEU	C	729	50.770	52.754	13.652	1.00	67.78	7
ATOM	9098	CA	LEU	C	729	49.761	53.460	14.422	1.00	68.12	6
ATOM	9099	CB	LEU	C	729	49.593	54.869	13.860	1.00	89.16	6
ATOM	9100	CG	LEU	C	729	48.724	55.863	14.621	1.00	90.78	6
ATOM	9101	CD1	LEU	C	729	49.227	55.984	16.045	1.00	92.34	6
ATOM	9102	CD2	LEU	C	729	48.759	57.211	13.917	1.00	91.03	6
ATOM	9103	C	LEU	C	729	48.500	52.632	14.191	1.00	68.16	6
ATOM	9104	O	LEU	C	729	47.477	52.824	14.839	1.00	67.48	8
ATOM	9105	N	SER	C	730	48.626	51.699	13.250	1.00	37.40	7
ATOM	9106	CA	SER	C	730	47.581	50.780	12.829	1.00	39.19	6
ATOM	9107	CB	SER	C	730	48.182	49.397	12.573	1.00	171.68	6
ATOM	9108	OG	SER	C	730	48.748	48.864	13.757	1.00	174.99	8
ATOM	9109	C	SER	C	730	46.403	50.643	13.769	1.00	39.37	6
ATOM	9110	O	SER	C	730	45.267	50.490	13.311	1.00	38.41	8
ATOM	9111	N	GLU	C	731	46.662	50.666	15.073	1.00	87.98	7
ATOM	9112	CA	GLU	C	731	45.581	50.559	16.043	1.00	89.62	6
ATOM	9113	CB	GLU	C	731	45.897	51.360	17.311	1.00	85.62	6
ATOM	9114	CG	GLU	C	731	46.841	50.716	18.314	1.00	86.23	6
ATOM	9115	CD	GLU	C	731	46.972	51.563	19.565	1.00	86.43	6
ATOM	9116	OE1	GLU	C	731	45.922	51.873	20.167	1.00	86.77	8
ATOM	9117	OE2	GLU	C	731	48.111	51.924	19.939	1.00	86.84	8
ATOM	9118	C	GLU	C	731	44.335	51.150	15.407	1.00	90.42	6
ATOM	9119	O	GLU	C	731	44.418	52.135	14.680	1.00	91.43	8

ATOM	9120	N	ALA	C	732	43.181	50.552	15.651	1.00	65.70	7
ATOM	9121	CA	ALA	C	732	41.965	51.102	15.085	1.00	66.50	6
ATOM	9122	CB	ALA	C	732	40.777	50.219	15.428	1.00	161.43	6
ATOM	9123	C	ALA	C	732	41.793	52.484	15.705	1.00	66.79	6
ATOM	9124	O	ALA	C	732	41.086	52.641	16.700	1.00	67.04	8
ATOM	9125	N	ALA	C	733	42.481	53.467	15.126	1.00	50.23	7
ATOM	9126	CA	ALA	C	733	42.444	54.865	15.557	1.00	49.45	6
ATOM	9127	CB	ALA	C	733	43.731	55.252	16.247	1.00	13.87	6
ATOM	9128	C	ALA	C	733	42.352	55.588	14.248	1.00	49.60	6
ATOM	9129	O	ALA	C	733	41.327	56.170	13.900	1.00	49.80	8
ATOM	9130	N	LEU	C	734	43.459	55.514	13.525	1.00	61.31	7
ATOM	9131	CA	LEU	C	734	43.614	56.108	12.206	1.00	62.40	6
ATOM	9132	CB	LEU	C	734	44.379	55.138	11.312	1.00	67.95	6
ATOM	9133	CG	LEU	C	734	45.512	54.422	12.034	1.00	68.37	6
ATOM	9134	CD1	LEU	C	734	45.858	53.168	11.259	1.00	69.37	6
ATOM	9135	CD2	LEU	C	734	46.704	55.357	12.199	1.00	67.78	6
ATOM	9136	C	LEU	C	734	42.274	56.402	11.560	1.00	62.65	6
ATOM	9137	O	LEU	C	734	41.699	57.478	11.743	1.00	62.31	8
ATOM	9138	N	ARG	C	735	41.800	55.415	10.805	1.00	146.73	7
ATOM	9139	CA	ARG	C	735	40.539	55.495	10.091	1.00	146.90	6
ATOM	9140	CB	ARG	C	735	40.562	54.540	8.892	1.00	160.15	6
ATOM	9141	CG	ARG	C	735	41.615	54.913	7.849	1.00	162.75	6
ATOM	9142	CD	ARG	C	735	41.786	53.827	6.801	1.00	166.69	6
ATOM	9143	NE	ARG	C	735	42.920	54.096	5.918	1.00	169.50	7
ATOM	9144	CZ	ARG	C	735	43.435	53.210	5.067	1.00	170.43	6
ATOM	9145	NH1	ARG	C	735	42.919	51.989	4.981	1.00	171.49	7
ATOM	9146	NH2	ARG	C	735	44.467	53.542	4.302	1.00	170.03	7
ATOM	9147	C	ARG	C	735	39.349	55.203	11.002	1.00	145.75	6
ATOM	9148	O	ARG	C	735	38.202	55.181	10.549	1.00	146.80	8
ATOM	9149	N	ASP	C	736	39.621	54.972	12.286	1.00	94.65	7
ATOM	9150	CA	ASP	C	736	38.541	54.738	13.242	1.00	92.16	6
ATOM	9151	CB	ASP	C	736	39.091	54.274	14.598	1.00	181.71	6
ATOM	9152	CG	ASP	C	736	38.028	53.604	15.467	1.00	184.26	6
ATOM	9153	OD1	ASP	C	736	37.045	54.276	15.841	1.00	185.06	8
ATOM	9154	OD2	ASP	C	736	38.177	52.401	15.775	1.00	184.92	8
ATOM	9155	C	ASP	C	736	37.965	56.145	13.334	1.00	88.95	6
ATOM	9156	O	ASP	C	736	36.883	56.382	13.860	1.00	88.81	8
ATOM	9157	N	LEU	C	737	38.742	57.067	12.785	1.00	49.70	7
ATOM	9158	CA	LEU	C	737	38.427	58.479	12.688	1.00	46.17	6
ATOM	9159	CB	LEU	C	737	38.811	59.197	13.971	1.00	66.95	6
ATOM	9160	CG	LEU	C	737	38.021	58.770	15.203	1.00	67.44	6
ATOM	9161	CD1	LEU	C	737	38.541	59.520	16.433	1.00	67.94	6
ATOM	9162	CD2	LEU	C	737	36.539	59.037	14.962	1.00	67.08	6
ATOM	9163	C	LEU	C	737	39.361	58.876	11.556	1.00	43.59	6
ATOM	9164	O	LEU	C	737	39.724	58.036	10.745	1.00	43.12	8
ATOM	9165	N	ALA	C	738	39.747	60.136	11.478	1.00	51.25	7
ATOM	9166	CA	ALA	C	738	40.673	60.534	10.434	1.00	48.98	6
ATOM	9167	CB	ALA	C	738	42.075	60.088	10.823	1.00	13.87	6
ATOM	9168	C	ALA	C	738	40.307	59.926	9.090	1.00	47.86	6
ATOM	9169	O	ALA	C	738	40.893	58.938	8.704	1.00	47.89	8
ATOM	9170	N	GLU	C	739	39.348	60.496	8.376	1.00	27.31	7
ATOM	9171	CA	GLU	C	739	38.975	59.959	7.072	1.00	27.39	6
ATOM	9172	CB	GLU	C	739	37.475	60.158	6.801	1.00	132.71	6
ATOM	9173	CG	GLU	C	739	37.062	61.524	6.264	1.00	136.99	6
ATOM	9174	CD	GLU	C	739	36.706	61.491	4.785	1.00	139.07	6
ATOM	9175	OE1	GLU	C	739	35.918	60.610	4.376	1.00	139.76	8

ATOM	9176	OE2	GLU	C	739	37.204	62.355	4.033	1.00140.52	8
ATOM	9177	C	GLU	C	739	39.815	60.646	6.002	1.00 26.59	6
ATOM	9178	O	GLU	C	739	39.869	61.886	5.938	1.00 24.52	8
ATOM	9179	N	GLU	C	740	40.476	59.813	5.189	1.00 87.32	7
ATOM	9180	CA	GLU	C	740	41.383	60.209	4.098	1.00 87.44	6
ATOM	9181	CB	GLU	C	740	40.601	60.823	2.923	1.00 93.01	6
ATOM	9182	CG	GLU	C	740	39.903	59.786	2.032	1.00 95.24	6
ATOM	9183	CD	GLU	C	740	39.841	60.197	0.555	1.00 97.00	6
ATOM	9184	OE1	GLU	C	740	40.909	60.453	-0.046	1.00 96.19	8
ATOM	9185	OE2	GLU	C	740	38.727	60.255	-0.014	1.00 99.01	8
ATOM	9186	C	GLU	C	740	42.541	61.138	4.513	1.00 86.01	6
ATOM	9187	O	GLU	C	740	43.079	61.899	3.698	1.00 85.82	8
ATOM	9188	N	GLY	C	741	42.932	61.046	5.784	1.00 68.95	7
ATOM	9189	CA	GLY	C	741	44.013	61.865	6.305	1.00 65.05	6
ATOM	9190	C	GLY	C	741	43.694	62.646	7.577	1.00 62.52	6
ATOM	9191	O	GLY	C	741	44.281	62.406	8.632	1.00 62.09	8
ATOM	9192	N	ILE	C	742	42.750	63.573	7.480	1.00 68.13	7
ATOM	9193	CA	ILE	C	742	42.373	64.422	8.604	1.00 67.23	6
ATOM	9194	CB	ILE	C	742	42.153	65.846	8.094	1.00 44.50	6
ATOM	9195	CG2	ILE	C	742	41.758	66.753	9.243	1.00 44.68	6
ATOM	9196	CG1	ILE	C	742	43.417	66.337	7.379	1.00 44.07	6
ATOM	9197	CD1	ILE	C	742	43.210	67.589	6.540	1.00 46.03	6
ATOM	9198	C	ILE	C	742	41.113	63.967	9.352	1.00 66.56	6
ATOM	9199	O	ILE	C	742	40.197	63.423	8.737	1.00 67.84	8
ATOM	9200	N	VAL	C	743	41.075	64.201	10.669	1.00 34.97	7
ATOM	9201	CA	VAL	C	743	39.929	63.838	11.517	1.00 31.92	6
ATOM	9202	CB	VAL	C	743	40.014	64.506	12.923	1.00 31.40	6
ATOM	9203	CG1	VAL	C	743	38.798	65.361	13.184	1.00 30.37	6
ATOM	9204	CG2	VAL	C	743	40.110	63.468	13.999	1.00 30.39	6
ATOM	9205	C	VAL	C	743	38.657	64.322	10.841	1.00 31.20	6
ATOM	9206	O	VAL	C	743	38.699	65.219	9.997	1.00 30.47	8
ATOM	9207	N	ALA	C	744	37.523	63.744	11.210	1.00 53.96	7
ATOM	9208	CA	ALA	C	744	36.256	64.150	10.607	1.00 54.41	6
ATOM	9209	CB	ALA	C	744	35.362	62.927	10.407	1.00103.76	6
ATOM	9210	C	ALA	C	744	35.534	65.197	11.454	1.00 53.29	6
ATOM	9211	O	ALA	C	744	36.020	65.581	12.519	1.00 53.58	8
ATOM	9212	N	ILE	C	745	34.381	65.663	10.978	1.00 16.77	7
ATOM	9213	CA	ILE	C	745	33.620	66.653	11.728	1.00 13.90	6
ATOM	9214	CB	ILE	C	745	32.634	67.422	10.852	1.00 35.23	6
ATOM	9215	CG2	ILE	C	745	32.013	68.549	11.667	1.00 33.55	6
ATOM	9216	CG1	ILE	C	745	33.354	67.995	9.634	1.00 35.74	6
ATOM	9217	CD1	ILE	C	745	34.431	68.987	9.992	1.00 36.65	6
ATOM	9218	C	ILE	C	745	32.836	65.918	12.792	1.00 13.87	6
ATOM	9219	O	ILE	C	745	32.599	64.723	12.672	1.00 13.87	8
ATOM	9220	N	GLY	C	746	32.448	66.639	13.836	1.00 42.04	7
ATOM	9221	CA	GLY	C	746	31.702	66.034	14.925	1.00 43.25	6
ATOM	9222	C	GLY	C	746	32.507	64.934	15.577	1.00 43.26	6
ATOM	9223	O	GLY	C	746	32.074	64.275	16.523	1.00 42.12	8
ATOM	9224	N	ALA	C	747	33.709	64.746	15.066	1.00 32.22	7
ATOM	9225	CA	ALA	C	747	34.560	63.709	15.587	1.00 33.91	6
ATOM	9226	CB	ALA	C	747	35.754	63.542	14.682	1.00 37.39	6
ATOM	9227	C	ALA	C	747	35.012	64.005	17.012	1.00 35.07	6
ATOM	9228	O	ALA	C	747	36.157	64.414	17.226	1.00 35.92	8
ATOM	9229	N	GLU	C	748	34.135	63.800	17.994	1.00 22.58	7
ATOM	9230	CA	GLU	C	748	34.531	64.064	19.376	1.00 23.16	6
ATOM	9231	CB	GLU	C	748	33.567	63.386	20.343	1.00 71.83	6

ATOM	9232	CG	GLU	C	748	33.923	63.604	21.789	1.00	74.78	6
ATOM	9233	CD	GLU	C	748	35.057	62.711	22.235	1.00	75.97	6
ATOM	9234	OE1	GLU	C	748	35.635	62.969	23.317	1.00	76.61	8
ATOM	9235	OE2	GLU	C	748	35.360	61.744	21.503	1.00	76.18	8
ATOM	9236	C	GLU	C	748	35.975	63.585	19.611	1.00	22.18	6
ATOM	9237	O	GLU	C	748	36.345	62.466	19.273	1.00	21.12	8
ATOM	9238	N	VAL	C	749	36.789	64.462	20.176	1.00	36.56	7
ATOM	9239	CA	VAL	C	749	38.190	64.166	20.427	1.00	38.14	6
ATOM	9240	CB	VAL	C	749	39.072	65.147	19.673	1.00	13.87	6
ATOM	9241	CG1	VAL	C	749	40.491	65.057	20.173	1.00	13.87	6
ATOM	9242	CG2	VAL	C	749	38.982	64.870	18.201	1.00	13.87	6
ATOM	9243	C	VAL	C	749	38.608	64.206	21.894	1.00	40.54	6
ATOM	9244	O	VAL	C	749	38.192	65.072	22.660	1.00	41.94	8
ATOM	9245	N	LYS	C	750	39.456	63.261	22.271	1.00	37.16	7
ATOM	9246	CA	LYS	C	750	39.967	63.170	23.627	1.00	37.78	6
ATOM	9247	CB	LYS	C	750	39.821	61.736	24.137	1.00	72.44	6
ATOM	9248	CG	LYS	C	750	40.427	60.691	23.202	1.00	74.47	6
ATOM	9249	CD	LYS	C	750	39.798	59.302	23.376	1.00	75.51	6
ATOM	9250	CE	LYS	C	750	40.386	58.286	22.391	1.00	74.34	6
ATOM	9251	NZ	LYS	C	750	39.770	56.934	22.485	1.00	74.01	7
ATOM	9252	C	LYS	C	750	41.431	63.569	23.544	1.00	37.97	6
ATOM	9253	O	LYS	C	750	41.969	63.794	22.460	1.00	36.77	8
ATOM	9254	N	PRO	C	751	42.094	63.700	24.685	1.00	24.59	7
ATOM	9255	CD	PRO	C	751	41.687	63.718	26.100	1.00	48.62	6
ATOM	9256	CA	PRO	C	751	43.490	64.078	24.532	1.00	26.26	6
ATOM	9257	CB	PRO	C	751	43.838	64.642	25.902	1.00	48.60	6
ATOM	9258	CG	PRO	C	751	43.022	63.780	26.814	1.00	49.06	6
ATOM	9259	C	PRO	C	751	44.277	62.824	24.178	1.00	27.98	6
ATOM	9260	O	PRO	C	751	44.156	61.791	24.850	1.00	27.80	8
ATOM	9261	N	GLY	C	752	45.054	62.918	23.099	1.00	97.48	7
ATOM	9262	CA	GLY	C	752	45.865	61.800	22.653	1.00	96.93	6
ATOM	9263	C	GLY	C	752	45.563	61.310	21.247	1.00	96.17	6
ATOM	9264	O	GLY	C	752	46.444	60.777	20.571	1.00	96.71	8
ATOM	9265	N	ASP	C	753	44.322	61.498	20.801	1.00	39.63	7
ATOM	9266	CA	ASP	C	753	43.893	61.050	19.478	1.00	38.92	6
ATOM	9267	CB	ASP	C	753	42.410	61.355	19.292	1.00	59.87	6
ATOM	9268	CG	ASP	C	753	41.535	60.535	20.214	1.00	61.42	6
ATOM	9269	OD1	ASP	C	753	40.289	60.633	20.108	1.00	61.59	8
ATOM	9270	OD2	ASP	C	753	42.104	59.793	21.045	1.00	62.12	8
ATOM	9271	C	ASP	C	753	44.688	61.630	18.318	1.00	37.17	6
ATOM	9272	O	ASP	C	753	45.423	62.592	18.486	1.00	37.59	8
ATOM	9273	N	ILE	C	754	44.531	61.040	17.137	1.00	26.11	7
ATOM	9274	CA	ILE	C	754	45.260	61.499	15.961	1.00	23.46	6
ATOM	9275	CB	ILE	C	754	45.497	60.352	14.948	1.00	16.19	6
ATOM	9276	CG2	ILE	C	754	46.279	60.872	13.756	1.00	15.99	6
ATOM	9277	CG1	ILE	C	754	46.196	59.160	15.631	1.00	16.51	6
ATOM	9278	CD1	ILE	C	754	47.629	59.389	16.079	1.00	14.91	6
ATOM	9279	C	ILE	C	754	44.516	62.613	15.237	1.00	20.74	6
ATOM	9280	O	ILE	C	754	43.981	62.411	14.157	1.00	20.04	8
ATOM	9281	N	LEU	C	755	44.496	63.791	15.846	1.00	26.14	7
ATOM	9282	CA	LEU	C	755	43.852	64.976	15.294	1.00	22.56	6
ATOM	9283	CB	LEU	C	755	44.432	66.181	16.005	1.00	20.32	6
ATOM	9284	CG	LEU	C	755	43.540	67.393	15.999	1.00	20.63	6
ATOM	9285	CD1	LEU	C	755	43.437	67.869	14.556	1.00	22.66	6
ATOM	9286	CD2	LEU	C	755	42.172	67.036	16.595	1.00	19.01	6
ATOM	9287	C	LEU	C	755	44.049	65.095	13.786	1.00	21.40	6

ATOM	9288	O	LEU	C	755	43.126	65.382	13.055	1.00	16.16	8
ATOM	9289	N	VAL	C	756	45.283	64.894	13.345	1.00	66.98	7
ATOM	9290	CA	VAL	C	756	45.666	64.907	11.926	1.00	69.54	6
ATOM	9291	CB	VAL	C	756	45.933	66.312	11.350	1.00	18.63	6
ATOM	9292	CG1	VAL	C	756	46.505	66.172	9.947	1.00	15.76	6
ATOM	9293	CG2	VAL	C	756	44.657	67.146	11.336	1.00	18.49	6
ATOM	9294	C	VAL	C	756	46.988	64.167	11.865	1.00	71.56	6
ATOM	9295	O	VAL	C	756	47.870	64.414	12.680	1.00	74.23	8
ATOM	9296	N	GLY	C	757	47.149	63.274	10.905	1.00	23.06	7
ATOM	9297	CA	GLY	C	757	48.395	62.544	10.863	1.00	24.27	6
ATOM	9298	C	GLY	C	757	49.137	62.674	9.566	1.00	25.32	6
ATOM	9299	O	GLY	C	757	48.529	62.731	8.496	1.00	26.18	8
ATOM	9300	N	ARG	C	758	50.460	62.754	9.660	1.00	28.46	7
ATOM	9301	CA	ARG	C	758	51.281	62.834	8.463	1.00	27.52	6
ATOM	9302	CB	ARG	C	758	51.556	64.302	8.053	1.00	31.61	6
ATOM	9303	CG	ARG	C	758	52.750	65.005	8.673	1.00	27.68	6
ATOM	9304	CD	ARG	C	758	52.462	65.585	10.051	1.00	24.98	6
ATOM	9305	NE	ARG	C	758	53.632	66.283	10.573	1.00	22.57	7
ATOM	9306	CZ	ARG	C	758	54.214	67.298	9.951	1.00	20.92	6
ATOM	9307	NH1	ARG	C	758	53.731	67.731	8.793	1.00	21.14	7
ATOM	9308	NH2	ARG	C	758	55.283	67.868	10.476	1.00	18.96	7
ATOM	9309	C	ARG	C	758	52.558	62.021	8.675	1.00	28.41	6
ATOM	9310	O	ARG	C	758	52.877	61.608	9.792	1.00	27.52	8
ATOM	9311	N	THR	C	759	53.276	61.774	7.593	1.00	38.73	7
ATOM	9312	CA	THR	C	759	54.470	60.955	7.657	1.00	42.64	6
ATOM	9313	CB	THR	C	759	54.193	59.641	6.910	1.00	66.71	6
ATOM	9314	OG1	THR	C	759	53.724	59.924	5.579	1.00	70.05	8
ATOM	9315	CG2	THR	C	759	53.119	58.841	7.649	1.00	66.40	6
ATOM	9316	C	THR	C	759	55.782	61.568	7.144	1.00	44.26	6
ATOM	9317	O	THR	C	759	55.884	62.058	6.016	1.00	43.54	8
ATOM	9318	N	SER	C	760	56.794	61.542	7.992	1.00	92.34	7
ATOM	9319	CA	SER	C	760	58.090	62.050	7.602	1.00	96.05	6
ATOM	9320	CB	SER	C	760	58.802	62.664	8.804	1.00	59.96	6
ATOM	9321	OG	SER	C	760	60.156	62.940	8.492	1.00	60.72	8
ATOM	9322	C	SER	C	760	58.876	60.851	7.079	1.00	98.27	6
ATOM	9323	O	SER	C	760	58.360	59.731	7.049	1.00	100.07	8
ATOM	9324	N	PHE	C	761	60.116	61.083	6.666	1.00	30.80	7
ATOM	9325	CA	PHE	C	761	60.957	60.008	6.154	1.00	32.27	6
ATOM	9326	CB	PHE	C	761	61.508	60.383	4.769	1.00	31.26	6
ATOM	9327	CG	PHE	C	761	60.546	60.138	3.634	1.00	29.23	6
ATOM	9328	CD1	PHE	C	761	59.374	60.875	3.517	1.00	28.64	6
ATOM	9329	CD2	PHE	C	761	60.804	59.155	2.695	1.00	27.90	6
ATOM	9330	CE1	PHE	C	761	58.473	60.632	2.479	1.00	27.46	6
ATOM	9331	CE2	PHE	C	761	59.909	58.908	1.660	1.00	26.39	6
ATOM	9332	CZ	PHE	C	761	58.741	59.648	1.553	1.00	26.21	6
ATOM	9333	C	PHE	C	761	62.113	59.749	7.123	1.00	34.39	6
ATOM	9334	O	PHE	C	761	62.434	58.597	7.443	1.00	32.45	8
ATOM	9335	N	LYS	C	762	62.719	60.846	7.574	1.00	75.69	7
ATOM	9336	CA	LYS	C	762	63.852	60.837	8.497	1.00	80.19	6
ATOM	9337	CB	LYS	C	762	63.389	61.236	9.902	1.00	104.57	6
ATOM	9338	CG	LYS	C	762	62.855	62.659	9.997	1.00	105.65	6
ATOM	9339	CD	LYS	C	762	62.386	62.983	11.407	1.00	106.46	6
ATOM	9340	CE	LYS	C	762	61.668	64.323	11.467	1.00	107.14	6
ATOM	9341	NZ	LYS	C	762	61.006	64.553	12.784	1.00	107.16	7
ATOM	9342	C	LYS	C	762	64.619	59.520	8.560	1.00	82.20	6
ATOM	9343	O	LYS	C	762	64.104	58.507	9.033	1.00	82.18	8

ATOM	9344	N	GLY	C	763	65.858	59.552	8.078	1.00	98.12	7
ATOM	9345	CA	GLY	C	763	66.694	58.368	8.091	1.00	100.72	6
ATOM	9346	C	GLY	C	763	67.747	58.497	9.169	1.00	102.72	6
ATOM	9347	O	GLY	C	763	68.768	59.149	8.966	1.00	102.66	8
ATOM	9348	N	GLU	C	764	67.496	57.875	10.317	1.00	155.30	7
ATOM	9349	CA	GLU	C	764	68.412	57.927	11.453	1.00	157.88	6
ATOM	9350	CB	GLU	C	764	67.652	57.620	12.746	1.00	99.28	6
ATOM	9351	CG	GLU	C	764	66.577	58.642	13.111	1.00	98.82	6
ATOM	9352	CD	GLU	C	764	65.591	58.895	11.987	1.00	98.23	6
ATOM	9353	OE1	GLU	C	764	65.826	59.815	11.173	1.00	97.44	8
ATOM	9354	OE2	GLU	C	764	64.587	58.160	11.913	1.00	97.72	8
ATOM	9355	C	GLU	C	764	69.590	56.965	11.316	1.00	159.07	6
ATOM	9356	O	GLU	C	764	70.739	57.339	11.558	1.00	159.14	8
ATOM	9357	N	GLN	C	765	69.297	55.726	10.935	1.00	78.66	7
ATOM	9358	CA	GLN	C	765	70.331	54.709	10.774	1.00	79.59	6
ATOM	9359	CB	GLN	C	765	70.469	53.906	12.070	1.00	174.48	6
ATOM	9360	CG	GLN	C	765	70.760	54.750	13.303	1.00	175.53	6
ATOM	9361	CD	GLN	C	765	70.693	53.951	14.593	1.00	176.86	6
ATOM	9362	OE1	GLN	C	765	71.366	52.931	14.740	1.00	176.70	8
ATOM	9363	NE2	GLN	C	765	69.879	54.416	15.537	1.00	177.18	7
ATOM	9364	C	GLN	C	765	69.999	53.752	9.629	1.00	79.76	6
ATOM	9365	O	GLN	C	765	68.836	53.594	9.254	1.00	79.42	8
ATOM	9366	N	GLU	C	766	71.027	53.123	9.072	1.00	83.53	7
ATOM	9367	CA	GLU	C	766	70.842	52.155	7.996	1.00	84.28	6
ATOM	9368	CB	GLU	C	766	71.962	52.291	6.963	1.00	112.35	6
ATOM	9369	CG	GLU	C	766	71.891	53.564	6.134	1.00	114.45	6
ATOM	9370	CD	GLU	C	766	70.773	53.524	5.105	1.00	115.73	6
ATOM	9371	OE1	GLU	C	766	70.506	54.562	4.457	1.00	116.02	8
ATOM	9372	OE2	GLU	C	766	70.166	52.446	4.938	1.00	116.55	8
ATOM	9373	C	GLU	C	766	70.891	50.774	8.649	1.00	84.41	6
ATOM	9374	O	GLU	C	766	71.949	50.337	9.101	1.00	84.45	8
ATOM	9375	N	PRO	C	767	69.746	50.069	8.710	1.00	84.90	7
ATOM	9376	CD	PRO	C	767	68.476	50.357	8.019	1.00	102.93	6
ATOM	9377	CA	PRO	C	767	69.696	48.740	9.325	1.00	85.00	6
ATOM	9378	CB	PRO	C	767	68.218	48.371	9.223	1.00	102.04	6
ATOM	9379	CG	PRO	C	767	67.835	48.974	7.919	1.00	102.18	6
ATOM	9380	C	PRO	C	767	70.585	47.725	8.625	1.00	85.38	6
ATOM	9381	O	PRO	C	767	70.357	47.389	7.461	1.00	85.98	8
ATOM	9382	N	SER	C	768	71.600	47.242	9.335	1.00	120.88	7
ATOM	9383	CA	SER	C	768	72.503	46.245	8.777	1.00	121.38	6
ATOM	9384	CB	SER	C	768	73.617	45.907	9.765	1.00	93.71	6
ATOM	9385	OG	SER	C	768	73.150	44.975	10.726	1.00	93.67	8
ATOM	9386	C	SER	C	768	71.630	45.024	8.602	1.00	121.74	6
ATOM	9387	O	SER	C	768	70.459	45.044	8.973	1.00	121.95	8
ATOM	9388	N	PRO	C	769	72.179	43.938	8.045	1.00	102.93	7
ATOM	9389	CD	PRO	C	769	73.580	43.580	7.766	1.00	89.35	6
ATOM	9390	CA	PRO	C	769	71.308	42.773	7.898	1.00	103.50	6
ATOM	9391	CB	PRO	C	769	72.210	41.762	7.207	1.00	90.02	6
ATOM	9392	CG	PRO	C	769	73.538	42.063	7.836	1.00	90.05	6
ATOM	9393	C	PRO	C	769	70.904	42.325	9.298	1.00	104.29	6
ATOM	9394	O	PRO	C	769	70.813	43.147	10.216	1.00	104.46	8
ATOM	9395	N	GLU	C	770	70.690	41.027	9.471	1.00	155.25	7
ATOM	9396	CA	GLU	C	770	70.296	40.510	10.772	1.00	155.10	6
ATOM	9397	CB	GLU	C	770	71.214	41.065	11.867	1.00	64.96	6
ATOM	9398	CG	GLU	C	770	72.702	41.012	11.532	1.00	63.46	6
ATOM	9399	CD	GLU	C	770	73.562	41.751	12.540	1.00	61.50	6

ATOM	9400	OE1	GLU	C	770	73.340	42.962	12.737	1.00	60.08	8
ATOM	9401	OE2	GLU	C	770	74.463	41.125	13.136	1.00	61.22	8
ATOM	9402	C	GLU	C	770	68.872	40.986	11.008	1.00	155.66	6
ATOM	9403	O	GLU	C	770	67.985	40.196	11.325	1.00	156.68	8
ATOM	9404	N	GLU	C	771	68.662	42.290	10.851	1.00	47.62	7
ATOM	9405	CA	GLU	C	771	67.345	42.874	11.026	1.00	47.75	6
ATOM	9406	CB	GLU	C	771	67.452	44.363	11.354	1.00	183.49	6
ATOM	9407	CG	GLU	C	771	67.730	44.639	12.822	1.00	184.01	6
ATOM	9408	CD	GLU	C	771	67.770	46.118	13.139	1.00	184.75	6
ATOM	9409	OE1	GLU	C	771	66.836	46.841	12.733	1.00	185.21	8
ATOM	9410	OE2	GLU	C	771	68.732	46.559	13.801	1.00	185.18	8
ATOM	9411	C	GLU	C	771	66.548	42.670	9.752	1.00	47.79	6
ATOM	9412	O	GLU	C	771	65.551	41.960	9.757	1.00	46.93	8
ATOM	9413	N	ARG	C	772	66.989	43.275	8.655	1.00	97.85	7
ATOM	9414	CA	ARG	C	772	66.276	43.119	7.393	1.00	99.27	6
ATOM	9415	CB	ARG	C	772	67.123	43.650	6.232	1.00	195.76	6
ATOM	9416	CG	ARG	C	772	66.331	44.148	5.011	1.00	198.00	6
ATOM	9417	CD	ARG	C	772	65.582	43.039	4.275	1.00	198.91	6
ATOM	9418	NE	ARG	C	772	65.100	43.490	2.970	1.00	198.07	7
ATOM	9419	CZ	ARG	C	772	64.426	42.726	2.116	1.00	197.88	6
ATOM	9420	NH1	ARG	C	772	64.148	41.468	2.429	1.00	198.35	7
ATOM	9421	NH2	ARG	C	772	64.040	43.214	0.945	1.00	197.11	7
ATOM	9422	C	ARG	C	772	65.996	41.629	7.212	1.00	98.44	6
ATOM	9423	O	ARG	C	772	65.008	41.244	6.586	1.00	97.98	8
ATOM	9424	N	LEU	C	773	66.873	40.796	7.770	1.00	84.36	7
ATOM	9425	CA	LEU	C	773	66.703	39.353	7.685	1.00	83.03	6
ATOM	9426	CB	LEU	C	773	67.942	38.613	8.189	1.00	67.30	6
ATOM	9427	CG	LEU	C	773	67.775	37.087	8.242	1.00	66.86	6
ATOM	9428	CD1	LEU	C	773	67.151	36.597	6.940	1.00	66.68	6
ATOM	9429	CD2	LEU	C	773	69.126	36.418	8.494	1.00	67.40	6
ATOM	9430	C	LEU	C	773	65.517	38.983	8.543	1.00	82.47	6
ATOM	9431	O	LEU	C	773	64.527	38.458	8.046	1.00	82.83	8
ATOM	9432	N	LEU	C	774	65.616	39.240	9.841	1.00	127.21	7
ATOM	9433	CA	LEU	C	774	64.493	38.937	10.705	1.00	126.02	6
ATOM	9434	CB	LEU	C	774	64.682	39.538	12.100	1.00	90.56	6
ATOM	9435	CG	LEU	C	774	65.899	39.062	12.892	1.00	90.26	6
ATOM	9436	CD1	LEU	C	774	65.866	39.621	14.300	1.00	90.04	6
ATOM	9437	CD2	LEU	C	774	65.901	37.557	12.932	1.00	89.38	6
ATOM	9438	C	LEU	C	774	63.335	39.617	9.999	1.00	125.72	6
ATOM	9439	O	LEU	C	774	62.316	38.988	9.712	1.00	127.26	8

ATOM	9456	CD1	ILE	C	777	65.262	34.896	9.054	1.00	91.23	6
ATOM	9457	C	ILE	C	777	60.602	36.587	8.424	1.00	53.63	6
ATOM	9458	O	ILE	C	777	59.571	36.209	7.874	1.00	54.38	8
ATOM	9459	N	PHE	C	778	60.612	37.191	9.600	1.00	80.03	7
ATOM	9460	CA	PHE	C	778	59.379	37.447	10.317	1.00	80.08	6
ATOM	9461	CB	PHE	C	778	59.698	37.795	11.767	1.00	79.43	6
ATOM	9462	CG	PHE	C	778	60.573	36.779	12.428	1.00	79.06	6
ATOM	9463	CD1	PHE	C	778	61.896	36.612	12.026	1.00	78.85	6
ATOM	9464	CD2	PHE	C	778	60.059	35.923	13.386	1.00	78.93	6
ATOM	9465	CE1	PHE	C	778	62.682	35.605	12.562	1.00	78.25	6
ATOM	9466	CE2	PHE	C	778	60.844	34.912	13.927	1.00	78.31	6
ATOM	9467	CZ	PHE	C	778	62.153	34.753	13.511	1.00	77.66	6
ATOM	9468	C	PHE	C	778	58.620	38.571	9.637	1.00	81.48	6
ATOM	9469	O	PHE	C	778	58.211	39.530	10.287	1.00	82.69	8
ATOM	9470	N	GLY	C	779	58.451	38.428	8.319	1.00	83.84	7
ATOM	9471	CA	GLY	C	779	57.738	39.394	7.496	1.00	85.02	6
ATOM	9472	C	GLY	C	779	57.593	40.754	8.133	1.00	86.05	6
ATOM	9473	O	GLY	C	779	56.496	41.308	8.233	1.00	86.31	8
ATOM	9474	N	ALA	C	780	58.721	41.295	8.563	1.00	58.08	7
ATOM	9475	CA	ALA	C	780	58.741	42.580	9.218	1.00	59.13	6
ATOM	9476	CB	ALA	C	780	59.834	42.595	10.254	1.00	88.73	6
ATOM	9477	C	ALA	C	780	58.934	43.708	8.224	1.00	60.39	6
ATOM	9478	O	ALA	C	780	59.800	44.565	8.403	1.00	61.00	8
ATOM	9479	N	ALA	C	781	58.114	43.694	7.177	1.00	105.56	7
ATOM	9480	CA	ALA	C	781	58.147	44.706	6.126	1.00	106.36	6
ATOM	9481	CB	ALA	C	781	56.728	45.016	5.670	1.00	152.25	6
ATOM	9482	C	ALA	C	781	58.829	45.983	6.597	1.00	106.65	6
ATOM	9483	O	ALA	C	781	58.381	46.615	7.554	1.00	106.54	8
ATOM	9484	N	ALA	C	782	59.913	46.354	5.922	1.00	90.59	7
ATOM	9485	CA	ALA	C	782	60.665	47.552	6.276	1.00	91.46	6
ATOM	9486	CB	ALA	C	782	61.874	47.695	5.358	1.00	46.35	6
ATOM	9487	C	ALA	C	782	59.811	48.822	6.231	1.00	92.22	6
ATOM	9488	O	ALA	C	782	58.659	48.805	5.783	1.00	92.80	8
ATOM	9489	N	ARG	C	783	60.390	49.925	6.695	1.00	127.32	7
ATOM	9490	CA	ARG	C	783	59.688	51.201	6.735	1.00	127.42	6
ATOM	9491	CB	ARG	C	783	59.027	51.374	8.103	1.00	132.46	6
ATOM	9492	CG	ARG	C	783	60.036	51.446	9.247	1.00	133.87	6
ATOM	9493	CD	ARG	C	783	59.374	51.400	10.617	1.00	134.71	6
ATOM	9494	NE	ARG	C	783	60.363	51.483	11.688	1.00	135.25	7
ATOM	9495	CZ	ARG	C	783	60.092	51.290	12.974	1.00	135.83	6
ATOM	9496	NH1	ARG	C	783	58.860	51.001	13.358	1.00	135.68	7
ATOM	9497	NH2	ARG	C	783	61.055	51.387	13.879	1.00	136.98	7
ATOM	9498	C	ARG	C	783	60.638	52.370	6.487	1.00	126.33	6
ATOM	9499	O	ARG	C	783	61.831	52.280	6.768	1.00	125.68	8
ATOM	9500	N	ASP	C	784	60.094	53.462	5.961	1.00	96.81	7
ATOM	9501	CA	ASP	C	784	60.858	54.677	5.686	1.00	96.62	6
ATOM	9502	CB	ASP	C	784	61.078	54.858	4.179	1.00	165.71	6
ATOM	9503	CG	ASP	C	784	62.224	54.027	3.642	1.00	167.54	6
ATOM	9504	OD1	ASP	C	784	63.387	54.298	4.011	1.00	168.36	8
ATOM	9505	OD2	ASP	C	784	61.961	53.106	2.843	1.00	168.28	8
ATOM	9506	C	ASP	C	784	60.048	55.864	6.198	1.00	95.97	6
ATOM	9507	O	ASP	C	784	60.163	56.973	5.671	1.00	96.30	8
ATOM	9508	N	VAL	C	785	59.242	55.640	7.233	1.00	84.48	7
ATOM	9509	CA	VAL	C	785	58.395	56.707	7.740	1.00	81.77	6
ATOM	9510	CB	VAL	C	785	57.065	56.674	6.992	1.00	76.38	6
ATOM	9511	CG1	VAL	C	785	55.991	57.305	7.824	1.00	78.53	6



ATOM	9512	CG2	VAL	C	785	57.208	57.395	5.674	1.00	75.81	6
ATOM	9513	C	VAL	C	785	58.108	56.759	9.242	1.00	80.52	6
ATOM	9514	O	VAL	C	785	57.859	55.729	9.880	1.00	80.39	8
ATOM	9515	N	LYS	C	786	58.127	57.983	9.780	1.00	65.91	7
ATOM	9516	CA	LYS	C	786	57.851	58.248	11.196	1.00	64.98	6
ATOM	9517	CB	LYS	C	786	58.651	59.457	11.694	1.00	87.58	6
ATOM	9518	CG	LYS	C	786	60.119	59.203	11.974	1.00	88.11	6
ATOM	9519	CD	LYS	C	786	60.747	60.411	12.669	1.00	89.06	6
ATOM	9520	CE	LYS	C	786	62.174	60.132	13.132	1.00	89.59	6
ATOM	9521	NZ	LYS	C	786	62.786	61.311	13.811	1.00	90.44	7
ATOM	9522	C	LYS	C	786	56.364	58.542	11.394	1.00	64.50	6
ATOM	9523	O	LYS	C	786	55.696	59.045	10.485	1.00	64.82	8
ATOM	9524	N	ASP	C	787	55.859	58.258	12.592	1.00	78.90	7
ATOM	9525	CA	ASP	C	787	54.447	58.472	12.904	1.00	77.08	6
ATOM	9526	CB	ASP	C	787	54.040	57.595	14.095	1.00	91.21	6
ATOM	9527	CG	ASP	C	787	52.530	57.548	14.312	1.00	90.98	6
ATOM	9528	OD1	ASP	C	787	51.926	58.575	14.689	1.00	90.77	8
ATOM	9529	OD2	ASP	C	787	51.942	56.467	14.105	1.00	91.64	8
ATOM	9530	C	ASP	C	787	54.098	59.924	13.206	1.00	76.50	6
ATOM	9531	O	ASP	C	787	53.005	60.204	13.686	1.00	77.65	8
ATOM	9532	N	THR	C	788	55.012	60.847	12.927	1.00	93.42	7
ATOM	9533	CA	THR	C	788	54.758	62.264	13.191	1.00	91.67	6
ATOM	9534	CB	THR	C	788	55.735	63.169	12.432	1.00	95.91	6
ATOM	9535	OG1	THR	C	788	55.235	64.511	12.437	1.00	96.03	8
ATOM	9536	CG2	THR	C	788	55.890	62.704	10.994	1.00	96.48	6
ATOM	9537	C	THR	C	788	53.349	62.692	12.798	1.00	91.65	6
ATOM	9538	O	THR	C	788	53.109	63.059	11.651	1.00	92.72	8
ATOM	9539	N	SER	C	789	52.422	62.653	13.753	1.00	56.46	7
ATOM	9540	CA	SER	C	789	51.044	63.045	13.489	1.00	54.25	6
ATOM	9541	CB	SER	C	789	50.082	62.041	14.120	1.00	115.65	6
ATOM	9542	OG	SER	C	789	50.305	60.739	13.613	1.00	119.05	8
ATOM	9543	C	SER	C	789	50.805	64.429	14.074	1.00	52.20	6
ATOM	9544	O	SER	C	789	51.716	65.255	14.114	1.00	51.55	8
ATOM	9545	N	LEU	C	790	49.575	64.683	14.510	1.00	68.48	7
ATOM	9546	CA	LEU	C	790	49.218	65.962	15.107	1.00	66.87	6
ATOM	9547	CB	LEU	C	790	48.061	66.615	14.381	1.00	35.44	6
ATOM	9548	CG	LEU	C	790	47.605	67.806	15.206	1.00	34.54	6
ATOM	9549	CD1	LEU	C	790	48.772	68.750	15.359	1.00	33.71	6
ATOM	9550	CD2	LEU	C	790	46.421	68.493	14.570	1.00	34.41	6
ATOM	9551	C	LEU	C	790	48.801	65.764	16.543	1.00	67.04	6
ATOM	9552	O	LEU	C	790	49.280	66.458	17.438	1.00	67.36	8
ATOM	9553	N	ARG	C	791	47.880	64.824	16.737	1.00	86.02	7
ATOM	9554	CA	ARG	C	791	47.346	64.460	18.049	1.00	84.48	6
ATOM	9555	CB	ARG	C	791	48.308	63.509	18.758	1.00	62.56	6
ATOM	9556	CG	ARG	C	791	48.452	62.201	18.048	1.00	63.59	6
ATOM	9557	CD	ARG	C	791	49.277	61.219	18.835	1.00	65.39	6
ATOM	9558	NE	ARG	C	791	49.596	60.070	17.997	1.00	67.02	7
ATOM	9559	CZ	ARG	C	791	50.304	59.025	18.395	1.00	68.43	6
ATOM	9560	NH1	ARG	C	791	50.773	58.972	19.633	1.00	69.44	7
ATOM	9561	NH2	ARG	C	791	50.552	58.044	17.546	1.00	69.24	7
ATOM	9562	C	ARG	C	791	46.983	65.597	18.991	1.00	82.74	6
ATOM	9563	O	ARG	C	791	47.699	66.590	19.105	1.00	84.11	8
ATOM	9564	N	VAL	C	792	45.865	65.437	19.683	1.00	13.87	7
ATOM	9565	CA	VAL	C	792	45.439	66.461	20.602	1.00	13.87	6
ATOM	9566	CB	VAL	C	792	43.941	66.366	20.889	1.00	38.63	6
ATOM	9567	CG1	VAL	C	792	43.550	67.385	21.922	1.00	39.04	6

ATOM	9568	CG2	VAL	C	792	43.178	66.652	19.617	1.00	38.69	6
ATOM	9569	C	VAL	C	792	46.238	66.392	21.889	1.00	13.87	6
ATOM	9570	O	VAL	C	792	46.291	65.360	22.550	1.00	13.87	8
ATOM	9571	N	PRO	C	793	46.883	67.512	22.246	1.00	54.22	7
ATOM	9572	CD	PRO	C	793	46.682	68.792	21.547	1.00	30.05	6
ATOM	9573	CA	PRO	C	793	47.720	67.718	23.425	1.00	55.90	6
ATOM	9574	CB	PRO	C	793	48.136	69.176	23.294	1.00	31.06	6
ATOM	9575	CG	PRO	C	793	46.986	69.784	22.623	1.00	29.13	6
ATOM	9576	C	PRO	C	793	46.960	67.457	24.694	1.00	58.23	6
ATOM	9577	O	PRO	C	793	45.821	67.016	24.658	1.00	60.69	8
ATOM	9578	N	PRO	C	794	47.585	67.717	25.842	1.00	54.15	7
ATOM	9579	CD	PRO	C	794	49.024	67.961	26.043	1.00	99.87	6
ATOM	9580	CA	PRO	C	794	46.913	67.493	27.121	1.00	54.81	6
ATOM	9581	CB	PRO	C	794	47.929	68.014	28.123	1.00	101.03	6
ATOM	9582	CG	PRO	C	794	49.220	67.584	27.492	1.00	99.96	6
ATOM	9583	C	PRO	C	794	45.539	68.146	27.274	1.00	55.50	6
ATOM	9584	O	PRO	C	794	44.783	67.769	28.161	1.00	56.42	8
ATOM	9585	N	GLY	C	795	45.214	69.116	26.424	1.00	89.83	7
ATOM	9586	CA	GLY	C	795	43.911	69.759	26.515	1.00	90.80	6
ATOM	9587	C	GLY	C	795	42.792	68.770	26.223	1.00	91.15	6
ATOM	9588	O	GLY	C	795	42.706	68.252	25.115	1.00	90.96	8
ATOM	9589	N	GLU	C	796	41.933	68.522	27.213	1.00	162.13	7
ATOM	9590	CA	GLU	C	796	40.812	67.573	27.114	1.00	160.60	6
ATOM	9591	CB	GLU	C	796	39.703	67.977	28.102	1.00	68.33	6
ATOM	9592	CG	GLU	C	796	38.591	66.940	28.304	1.00	68.24	6
ATOM	9593	CD	GLU	C	796	37.365	67.177	27.435	1.00	69.47	6
ATOM	9594	OE1	GLU	C	796	36.639	68.173	27.662	1.00	69.13	8
ATOM	9595	OE2	GLU	C	796	37.123	66.359	26.523	1.00	72.01	8
ATOM	9596	C	GLU	C	796	40.192	67.320	25.732	1.00	159.42	6
ATOM	9597	O	GLU	C	796	39.453	66.353	25.559	1.00	159.93	8
ATOM	9598	N	GLY	C	797	40.481	68.174	24.755	1.00	54.40	7
ATOM	9599	CA	GLY	C	797	39.932	67.974	23.429	1.00	51.86	6
ATOM	9600	C	GLY	C	797	38.481	68.379	23.354	1.00	51.20	6
ATOM	9601	O	GLY	C	797	38.108	69.381	23.935	1.00	53.71	8
ATOM	9602	N	GLY	C	798	37.664	67.606	22.646	1.00	30.90	7
ATOM	9603	CA	GLY	C	798	36.249	67.919	22.510	1.00	26.75	6
ATOM	9604	C	GLY	C	798	35.797	67.791	21.063	1.00	24.13	6
ATOM	9605	O	GLY	C	798	36.615	67.829	20.148	1.00	24.00	8
ATOM	9606	N	ILE	C	799	34.496	67.640	20.849	1.00	52.65	7
ATOM	9607	CA	ILE	C	799	33.932	67.500	19.508	1.00	51.38	6
ATOM	9608	CB	ILE	C	799	32.432	67.843	19.510	1.00	37.82	6
ATOM	9609	CG2	ILE	C	799	31.860	67.640	18.135	1.00	38.21	6
ATOM	9610	CG1	ILE	C	799	31.685	66.932	20.482	1.00	37.62	6
ATOM	9611	CD1	ILE	C	799	30.228	67.298	20.656	1.00	38.08	6
ATOM	9612	C	ILE	C	799	34.631	68.369	18.464	1.00	51.09	6
ATOM	9613	O	ILE	C	799	34.909	69.542	18.708	1.00	52.47	8
ATOM	9614	N	VAL	C	800	34.891	67.777	17.298	1.00	24.03	7
ATOM	9615	CA	VAL	C	800	35.576	68.433	16.189	1.00	22.71	6
ATOM	9616	CB	VAL	C	800	36.247	67.384	15.296	1.00	41.32	6
ATOM	9617	CG1	VAL	C	800	36.777	68.022	14.036	1.00	41.89	6
ATOM	9618	CG2	VAL	C	800	37.387	66.740	16.050	1.00	43.40	6
ATOM	9619	C	VAL	C	800	34.703	69.317	15.317	1.00	21.31	6
ATOM	9620	O	VAL	C	800	34.143	68.858	14.332	1.00	21.71	8
ATOM	9621	N	VAL	C	801	34.635	70.599	15.658	1.00	31.00	7
ATOM	9622	CA	VAL	C	801	33.813	71.567	14.934	1.00	31.22	6
ATOM	9623	CB	VAL	C	801	33.840	72.913	15.645	1.00	24.39	6

ATOM	9624	CG1	VAL	C	801	33.430	74.043	14.697	1.00	23.36	6
ATOM	9625	CG2	VAL	C	801	32.909	72.843	16.824	1.00	22.94	6
ATOM	9626	C	VAL	C	801	34.071	71.802	13.455	1.00	33.09	6
ATOM	9627	O	VAL	C	801	33.157	72.207	12.736	1.00	33.79	8
ATOM	9628	N	GLY	C	802	35.295	71.566	12.992	1.00	57.16	7
ATOM	9629	CA	GLY	C	802	35.581	71.771	11.579	1.00	59.11	6
ATOM	9630	C	GLY	C	802	37.051	71.803	11.216	1.00	60.54	6
ATOM	9631	O	GLY	C	802	37.899	72.121	12.050	1.00	61.00	8
ATOM	9632	N	ARG	C	803	37.352	71.471	9.966	1.00	44.92	7
ATOM	9633	CA	ARG	C	803	38.727	71.469	9.486	1.00	46.07	6
ATOM	9634	CB	ARG	C	803	39.163	70.040	9.156	1.00	68.65	6
ATOM	9635	CG	ARG	C	803	38.034	69.122	8.717	1.00	70.00	6
ATOM	9636	CD	ARG	C	803	37.239	69.702	7.543	1.00	72.16	6
ATOM	9637	NE	ARG	C	803	36.271	68.746	6.991	1.00	74.41	7
ATOM	9638	CZ	ARG	C	803	35.474	68.984	5.946	1.00	74.85	6
ATOM	9639	NH1	ARG	C	803	35.510	70.155	5.320	1.00	75.42	7
ATOM	9640	NH2	ARG	C	803	34.645	68.041	5.516	1.00	75.93	7
ATOM	9641	C	ARG	C	803	38.921	72.382	8.268	1.00	46.28	6
ATOM	9642	O	ARG	C	803	37.956	72.907	7.710	1.00	45.62	8
ATOM	9643	N	LEU	C	804	40.174	72.576	7.870	1.00	22.15	7
ATOM	9644	CA	LEU	C	804	40.498	73.426	6.734	1.00	25.08	6
ATOM	9645	CB	LEU	C	804	40.581	74.866	7.183	1.00	42.19	6
ATOM	9646	CG	LEU	C	804	40.918	75.795	6.034	1.00	43.18	6
ATOM	9647	CD1	LEU	C	804	39.626	76.070	5.291	1.00	42.77	6
ATOM	9648	CD2	LEU	C	804	41.565	77.089	6.544	1.00	44.40	6
ATOM	9649	C	LEU	C	804	41.847	73.009	6.153	1.00	27.39	6
ATOM	9650	O	LEU	C	804	42.805	72.771	6.905	1.00	27.47	8
ATOM	9651	N	ARG	C	805	41.922	72.955	4.820	1.00	65.05	7
ATOM	9652	CA	ARG	C	805	43.128	72.523	4.108	1.00	67.96	6
ATOM	9653	CB	ARG	C	805	42.804	71.215	3.374	1.00	164.73	6
ATOM	9654	CG	ARG	C	805	43.967	70.269	3.112	1.00	168.40	6
ATOM	9655	CD	ARG	C	805	43.439	68.982	2.469	1.00	171.64	6
ATOM	9656	NE	ARG	C	805	44.487	68.007	2.178	1.00	173.63	7
ATOM	9657	CZ	ARG	C	805	44.283	66.838	1.574	1.00	174.68	6
ATOM	9658	NH1	ARG	C	805	43.063	66.482	1.187	1.00	175.14	7
ATOM	9659	NH2	ARG	C	805	45.302	66.018	1.354	1.00	173.89	7
ATOM	9660	C	ARG	C	805	43.670	73.568	3.115	1.00	68.14	6
ATOM	9661	O	ARG	C	805	42.946	74.033	2.232	1.00	68.35	8
ATOM	9662	N	LEU	C	806	44.950	73.919	3.262	1.00	73.86	7
ATOM	9663	CA	LEU	C	806	45.622	74.908	2.402	1.00	75.14	6
ATOM	9664	CB	LEU	C	806	45.871	76.201	3.183	1.00	128.92	6
ATOM	9665	CG	LEU	C	806	44.675	77.043	3.619	1.00	132.18	6
ATOM	9666	CD1	LEU	C	806	45.147	78.165	4.533	1.00	132.84	6
ATOM	9667	CD2	LEU	C	806	43.977	77.604	2.390	1.00	133.73	6
ATOM	9668	C	LEU	C	806	46.972	74.417	1.858	1.00	74.67	6
ATOM	9669	O	LEU	C	806	47.906	74.199	2.625	1.00	75.32	8
ATOM	9670	N	ARG	C	807	47.092	74.273	0.542	1.00	48.38	7
ATOM	9671	CA	ARG	C	807	48.343	73.814	-0.042	1.00	46.74	6
ATOM	9672	CB	ARG	C	807	48.237	72.331	-0.397	1.00	182.04	6
ATOM	9673	CG	ARG	C	807	47.154	72.037	-1.415	1.00	186.27	6
ATOM	9674	CD	ARG	C	807	47.084	70.565	-1.774	1.00	191.33	6
ATOM	9675	NE	ARG	C	807	46.168	70.349	-2.890	1.00	197.20	7
ATOM	9676	CZ	ARG	C	807	45.906	69.164	-3.434	1.00	198.77	6
ATOM	9677	NH1	ARG	C	807	46.489	68.067	-2.967	1.00	200.22	7
ATOM	9678	NH2	ARG	C	807	45.063	69.081	-4.456	1.00	199.20	7
ATOM	9679	C	ARG	C	807	48.715	74.609	-1.290	1.00	43.90	6

ATOM	9680	O	ARG	C	807	47.857	74.899	-2.119	1.00	43.25	8
ATOM	9681	N	ARG	C	808	49.998	74.947	-1.423	1.00	21.30	7
ATOM	9682	CA	ARG	C	808	50.489	75.698	-2.575	1.00	18.77	6
ATOM	9683	CB	ARG	C	808	52.018	75.756	-2.596	1.00	43.57	6
ATOM	9684	CG	ARG	C	808	52.680	74.427	-2.915	1.00	42.55	6
ATOM	9685	CD	ARG	C	808	54.204	74.528	-3.006	1.00	42.16	6
ATOM	9686	NE	ARG	C	808	54.838	73.290	-2.541	1.00	43.97	7
ATOM	9687	CZ	ARG	C	808	56.149	73.063	-2.530	1.00	44.91	6
ATOM	9688	NH1	ARG	C	808	56.993	73.991	-2.969	1.00	45.22	7
ATOM	9689	NH2	ARG	C	808	56.616	71.908	-2.060	1.00	45.87	7
ATOM	9690	C	ARG	C	808	50.011	75.034	-3.847	1.00	18.28	6
ATOM	9691	O	ARG	C	808	49.821	73.821	-3.895	1.00	16.07	8
ATOM	9692	N	GLY	C	809	49.856	75.838	-4.889	1.00	68.74	7
ATOM	9693	CA	GLY	C	809	49.364	75.329	-6.149	1.00	70.46	6
ATOM	9694	C	GLY	C	809	47.946	75.832	-6.122	1.00	71.55	6
ATOM	9695	O	GLY	C	809	47.315	76.039	-7.154	1.00	73.19	8
ATOM	9696	N	ASP	C	810	47.461	76.032	-4.900	1.00	57.25	7
ATOM	9697	CA	ASP	C	810	46.123	76.549	-4.644	1.00	57.46	6
ATOM	9698	CB	ASP	C	810	45.809	76.450	-3.145	1.00	46.40	6
ATOM	9699	CG	ASP	C	810	44.543	75.679	-2.850	1.00	46.28	6
ATOM	9700	OD1	ASP	C	810	43.542	75.868	-3.567	1.00	47.68	8
ATOM	9701	OD2	ASP	C	810	44.538	74.894	-1.881	1.00	45.83	8
ATOM	9702	C	ASP	C	810	46.220	78.022	-5.040	1.00	58.13	6
ATOM	9703	O	ASP	C	810	47.312	78.501	-5.352	1.00	58.06	8
ATOM	9704	N	PRO	C	811	45.093	78.757	-5.028	1.00	83.43	7
ATOM	9705	CD	PRO	C	811	43.732	78.324	-4.698	1.00	44.68	6
ATOM	9706	CA	PRO	C	811	45.070	80.177	-5.382	1.00	85.22	6
ATOM	9707	CB	PRO	C	811	43.594	80.511	-5.337	1.00	45.44	6
ATOM	9708	CG	PRO	C	811	43.115	79.628	-4.272	1.00	44.85	6
ATOM	9709	C	PRO	C	811	45.862	81.063	-4.429	1.00	87.07	6
ATOM	9710	O	PRO	C	811	46.932	80.684	-3.956	1.00	88.35	8
ATOM	9711	N	GLY	C	812	45.311	82.243	-4.153	1.00	91.85	7
ATOM	9712	CA	GLY	C	812	45.960	83.213	-3.286	1.00	92.81	6
ATOM	9713	C	GLY	C	812	47.067	82.698	-2.386	1.00	91.54	6
ATOM	9714	O	GLY	C	812	48.159	83.259	-2.334	1.00	92.22	8
ATOM	9715	N	VAL	C	813	46.775	81.612	-1.686	1.00	43.41	7
ATOM	9716	CA	VAL	C	813	47.690	80.985	-0.745	1.00	41.37	6
ATOM	9717	CB	VAL	C	813	47.395	79.458	-0.647	1.00	26.32	6
ATOM	9718	CG1	VAL	C	813	47.752	78.952	0.745	1.00	25.82	6
ATOM	9719	CG2	VAL	C	813	45.907	79.178	-0.947	1.00	25.69	6
ATOM	9720	C	VAL	C	813	49.189	81.201	-0.995	1.00	41.50	6
ATOM	9721	O	VAL	C	813	49.753	80.756	-1.992	1.00	40.43	8
ATOM	9722	N	GLU	C	814	49.824	81.919	-0.080	1.00	34.98	7
ATOM	9723	CA	GLU	C	814	51.252	82.166	-0.149	1.00	37.19	6
ATOM	9724	CB	GLU	C	814	51.558	83.654	0.097	1.00	115.90	6
ATOM	9725	CG	GLU	C	814	51.185	84.161	1.496	1.00	119.46	6
ATOM	9726	CD	GLU	C	814	51.402	85.658	1.686	1.00	121.07	6
ATOM	9727	OE1	GLU	C	814	50.693	86.450	1.033	1.00	122.38	8
ATOM	9728	OE2	GLU	C	814	52.277	86.040	2.494	1.00	122.43	8
ATOM	9729	C	GLU	C	814	51.717	81.319	1.026	1.00	37.29	6
ATOM	9730	O	GLU	C	814	51.220	81.483	2.140	1.00	37.09	8
ATOM	9731	N	LEU	C	815	52.637	80.390	0.806	1.00	28.62	7
ATOM	9732	CA	LEU	C	815	53.052	79.565	1.931	1.00	29.31	6
ATOM	9733	CB	LEU	C	815	52.386	78.192	1.855	1.00	36.74	6
ATOM	9734	CG	LEU	C	815	50.882	78.194	1.590	1.00	35.82	6
ATOM	9735	CD1	LEU	C	815	50.660	78.503	0.126	1.00	36.39	6

ATOM	9736	CD2	LEU	C	815	50.276	76.848	1.918	1.00	35.80	6
ATOM	9737	C	LEU	C	815	54.548	79.392	2.070	1.00	30.73	6
ATOM	9738	O	LEU	C	815	55.253	79.147	1.092	1.00	29.93	8
ATOM	9739	N	LYS	C	816	55.000	79.526	3.317	1.00	99.29	7
ATOM	9740	CA	LYS	C	816	56.399	79.400	3.723	1.00	101.20	6
ATOM	9741	CB	LYS	C	816	56.472	78.895	5.170	1.00	129.01	6
ATOM	9742	CG	LYS	C	816	57.793	78.249	5.580	1.00	130.38	6
ATOM	9743	CD	LYS	C	816	58.960	79.214	5.587	1.00	131.78	6
ATOM	9744	CE	LYS	C	816	60.218	78.526	6.102	1.00	132.53	6
ATOM	9745	NZ	LYS	C	816	60.544	77.289	5.335	1.00	132.71	7
ATOM	9746	C	LYS	C	816	57.173	78.474	2.814	1.00	101.91	6
ATOM	9747	O	LYS	C	816	56.805	77.311	2.639	1.00	102.19	8
ATOM	9748	N	PRO	C	817	58.267	78.983	2.226	1.00	85.14	7
ATOM	9749	CD	PRO	C	817	58.920	80.268	2.522	1.00	123.43	6
ATOM	9750	CA	PRO	C	817	59.094	78.180	1.322	1.00	85.29	6
ATOM	9751	CB	PRO	C	817	60.424	78.942	1.291	1.00	124.09	6
ATOM	9752	CG	PRO	C	817	60.355	79.875	2.498	1.00	124.53	6
ATOM	9753	C	PRO	C	817	59.232	76.731	1.774	1.00	85.00	6
ATOM	9754	O	PRO	C	817	59.646	76.447	2.905	1.00	84.81	8
ATOM	9755	N	GLY	C	818	58.858	75.821	0.881	1.00	111.88	7
ATOM	9756	CA	GLY	C	818	58.929	74.409	1.189	1.00	111.02	6
ATOM	9757	C	GLY	C	818	57.614	73.916	1.752	1.00	109.73	6
ATOM	9758	O	GLY	C	818	57.097	72.879	1.336	1.00	110.63	8
ATOM	9759	N	VAL	C	819	57.068	74.661	2.704	1.00	88.15	7
ATOM	9760	CA	VAL	C	819	55.807	74.284	3.311	1.00	85.63	6
ATOM	9761	CB	VAL	C	819	55.234	75.421	4.159	1.00	96.98	6
ATOM	9762	CG1	VAL	C	819	53.832	75.072	4.619	1.00	98.99	6
ATOM	9763	CG2	VAL	C	819	56.118	75.665	5.344	1.00	96.50	6
ATOM	9764	C	VAL	C	819	54.798	73.947	2.232	1.00	83.05	6
ATOM	9765	O	VAL	C	819	54.316	74.836	1.536	1.00	82.90	8
ATOM	9766	N	ARG	C	820	54.498	72.662	2.080	1.00	43.94	7
ATOM	9767	CA	ARG	C	820	53.518	72.215	1.097	1.00	41.90	6
ATOM	9768	CB	ARG	C	820	54.029	70.970	0.360	1.00	120.94	6
ATOM	9769	CG	ARG	C	820	53.111	70.480	-0.758	1.00	126.07	6
ATOM	9770	CD	ARG	C	820	53.519	69.097	-1.285	1.00	129.75	6
ATOM	9771	NE	ARG	C	820	52.627	68.640	-2.354	1.00	133.10	7
ATOM	9772	CZ	ARG	C	820	52.639	67.417	-2.881	1.00	134.05	6
ATOM	9773	NH1	ARG	C	820	53.497	66.506	-2.442	1.00	134.60	7
ATOM	9774	NH2	ARG	C	820	51.793	67.102	-3.851	1.00	133.74	7
ATOM	9775	C	ARG	C	820	52.333	71.859	1.966	1.00	38.35	6
ATOM	9776	O	ARG								

ATOM	9792	O	VAL	C	822	46.785	73.817	6.583	1.00	28.37	8
ATOM	9793	N	VAL	C	823	47.507	71.780	7.095	1.00	24.67	7
ATOM	9794	CA	VAL	C	823	46.249	71.378	7.708	1.00	24.23	6
ATOM	9795	CB	VAL	C	823	46.308	69.878	8.123	1.00	15.35	6
ATOM	9796	CG1	VAL	C	823	45.004	69.435	8.776	1.00	15.07	6
ATOM	9797	CG2	VAL	C	823	46.581	69.035	6.912	1.00	16.46	6
ATOM	9798	C	VAL	C	823	45.880	72.211	8.937	1.00	25.40	6
ATOM	9799	O	VAL	C	823	46.754	72.594	9.729	1.00	26.38	8
ATOM	9800	N	ARG	C	824	44.581	72.488	9.081	1.00	37.23	7
ATOM	9801	CA	ARG	C	824	44.048	73.217	10.232	1.00	36.42	6
ATOM	9802	CB	ARG	C	824	43.706	74.656	9.876	1.00	41.29	6
ATOM	9803	CG	ARG	C	824	44.900	75.561	9.769	1.00	41.99	6
ATOM	9804	CD	ARG	C	824	44.451	76.955	9.424	1.00	44.29	6
ATOM	9805	NE	ARG	C	824	45.567	77.790	9.001	1.00	46.91	7
ATOM	9806	CZ	ARG	C	824	45.444	79.061	8.635	1.00	47.62	6
ATOM	9807	NH1	ARG	C	824	44.245	79.643	8.642	1.00	48.05	7
ATOM	9808	NH2	ARG	C	824	46.520	79.747	8.269	1.00	48.13	7
ATOM	9809	C	ARG	C	824	42.784	72.525	10.704	1.00	35.88	6
ATOM	9810	O	ARG	C	824	41.932	72.168	9.888	1.00	35.49	8
ATOM	9811	N	VAL	C	825	42.664	72.337	12.016	1.00	38.85	7
ATOM	9812	CA	VAL	C	825	41.490	71.691	12.593	1.00	36.68	6
ATOM	9813	CB	VAL	C	825	41.779	70.208	12.898	1.00	13.87	6
ATOM	9814	CG1	VAL	C	825	40.641	69.584	13.710	1.00	13.87	6
ATOM	9815	CG2	VAL	C	825	41.939	69.463	11.610	1.00	13.87	6
ATOM	9816	C	VAL	C	825	41.003	72.386	13.868	1.00	37.58	6
ATOM	9817	O	VAL	C	825	41.771	72.516	14.827	1.00	37.01	8
ATOM	9818	N	PHE	C	826	39.734	72.828	13.856	1.00	25.93	7
ATOM	9819	CA	PHE	C	826	39.096	73.502	14.994	1.00	24.67	6
ATOM	9820	CB	PHE	C	826	38.096	74.543	14.535	1.00	16.41	6
ATOM	9821	CG	PHE	C	826	38.639	75.545	13.590	1.00	16.49	6
ATOM	9822	CD1	PHE	C	826	39.872	76.125	13.802	1.00	17.42	6
ATOM	9823	CD2	PHE	C	826	37.877	75.970	12.515	1.00	16.81	6
ATOM	9824	CE1	PHE	C	826	40.345	77.122	12.958	1.00	16.74	6
ATOM	9825	CE2	PHE	C	826	38.337	76.962	11.669	1.00	16.62	6
ATOM	9826	CZ	PHE	C	826	39.582	77.541	11.897	1.00	17.57	6
ATOM	9827	C	PHE	C	826	38.316	72.520	15.854	1.00	25.21	6
ATOM	9828	O	PHE	C	826	37.588	71.685	15.325	1.00	24.96	8
ATOM	9829	N	VAL	C	827	38.439	72.655	17.174	1.00	27.15	7
ATOM	9830	CA	VAL	C	827	37.754	71.785	18.134	1.00	28.02	6
ATOM	9831	CB	VAL	C	827	38.748	71.002	18.998	1.00	20.05	6
ATOM	9832	CG1	VAL	C	827	38.042	70.373	20.152	1.00	21.05	6
ATOM	9833	CG2	VAL	C	827	39.393	69.929	18.192	1.00	22.40	6
ATOM	9834	C	VAL	C	827	36.936	72.635	19.073	1.00	29.38	6
ATOM	9835	O	VAL	C	827	37.424	73.643	19.548	1.00	32.32	8
ATOM	9836	N	ALA	C	828	35.706	72.231	19.358	1.00	23.27	7
ATOM	9837	CA	ALA	C	828	34.872	73.011	20.253	1.00	24.00	6
ATOM	9838	CB	ALA	C	828	33.423	72.947	19.810	1.00	13.87	6
ATOM	9839	C	ALA	C	828	35.015	72.477	21.660	1.00	25.87	6
ATOM	9840	O	ALA	C	828	35.602	71.422	21.855	1.00	26.88	8
ATOM	9841	N	GLN	C	829	34.468	73.206	22.634	1.00	44.45	7
ATOM	9842	CA	GLN	C	829	34.525	72.806	24.042	1.00	46.16	6
ATOM	9843	CB	GLN	C	829	35.925	73.080	24.591	1.00	25.13	6
ATOM	9844	CG	GLN	C	829	36.639	71.870	25.163	1.00	26.51	6
ATOM	9845	CD	GLN	C	829	38.022	72.218	25.698	1.00	27.53	6
ATOM	9846	OE1	GLN	C	829	38.787	72.934	25.048	1.00	27.91	8
ATOM	9847	NE2	GLN	C	829	38.353	71.700	26.880	1.00	28.79	7

ATOM	9848	C	GLN	C	829	33.489	73.524	24.934	1.00	47.54	6
ATOM	9849	O	GLN	C	829	33.752	74.611	25.437	1.00	48.43	8
ATOM	9850	N	LYS	C	830	32.313	72.930	25.124	1.00	55.30	7
ATOM	9851	CA	LYS	C	830	31.291	73.524	25.992	1.00	55.79	6
ATOM	9852	CB	LYS	C	830	30.049	72.645	26.046	1.00	44.08	6
ATOM	9853	CG	LYS	C	830	28.730	73.330	25.813	1.00	44.08	6
ATOM	9854	CD	LYS	C	830	27.638	72.319	26.135	1.00	44.95	6
ATOM	9855	CE	LYS	C	830	26.243	72.782	25.733	1.00	44.96	6
ATOM	9856	NZ	LYS	C	830	25.185	71.813	26.191	1.00	46.02	7
ATOM	9857	C	LYS	C	830	31.990	73.449	27.333	1.00	56.00	6
ATOM	9858	O	LYS	C	830	32.352	72.356	27.776	1.00	57.65	8
ATOM	9859	N	ARG	C	831	32.164	74.586	27.995	1.00	37.74	7
ATOM	9860	CA	ARG	C	831	32.890	74.584	29.247	1.00	38.23	6
ATOM	9861	CB	ARG	C	831	34.073	75.539	29.095	1.00	32.53	6
ATOM	9862	CG	ARG	C	831	35.225	74.934	28.313	1.00	32.88	6
ATOM	9863	CD	ARG	C	831	36.136	75.977	27.686	1.00	32.47	6
ATOM	9864	NE	ARG	C	831	37.389	75.382	27.231	1.00	31.19	7
ATOM	9865	CZ	ARG	C	831	38.425	75.146	28.028	1.00	30.93	6
ATOM	9866	NH1	ARG	C	831	38.354	75.466	29.310	1.00	28.35	7
ATOM	9867	NH2	ARG	C	831	39.522	74.579	27.549	1.00	32.06	7
ATOM	9868	C	ARG	C	831	32.207	74.804	30.600	1.00	38.44	6
ATOM	9869	O	ARG	C	831	32.888	75.107	31.564	1.00	40.82	8
ATOM	9870	N	LYS	C	832	30.897	74.621	30.697	1.00	54.72	7
ATOM	9871	CA	LYS	C	832	30.190	74.803	31.971	1.00	53.39	6
ATOM	9872	CB	LYS	C	832	29.877	73.451	32.614	1.00	53.99	6
ATOM	9873	CG	LYS	C	832	29.311	72.425	31.643	1.00	58.08	6
ATOM	9874	CD	LYS	C	832	28.366	71.424	32.304	1.00	59.20	6
ATOM	9875	CE	LYS	C	832	27.080	72.113	32.715	1.00	59.55	6
ATOM	9876	NZ	LYS	C	832	26.026	71.157	33.141	1.00	61.57	7
ATOM	9877	C	LYS	C	832	30.942	75.668	32.987	1.00	52.37	6
ATOM	9878	O	LYS	C	832	31.604	76.647	32.620	1.00	53.67	8
ATOM	9879	N	LEU	C	833	30.842	75.314	34.266	1.00	22.03	7
ATOM	9880	CA	LEU	C	833	31.512	76.088	35.306	1.00	19.43	6
ATOM	9881	CB	LEU	C	833	30.513	77.081	35.920	1.00	13.87	6
ATOM	9882	CG	LEU	C	833	31.006	78.195	36.844	1.00	13.87	6
ATOM	9883	CD1	LEU	C	833	32.109	78.938	36.145	1.00	13.87	6
ATOM	9884	CD2	LEU	C	833	29.872	79.142	37.230	1.00	13.87	6
ATOM	9885	C	LEU	C	833	32.138	75.182	36.381	1.00	18.99	6
ATOM	9886	O	LEU	C	833	31.473	74.316	36.965	1.00	18.69	8
ATOM	9887	N	GLN	C	834	33.430	75.389	36.638	1.00	28.50	7
ATOM	9888	CA	GLN	C	834	34.149	74.585	37.620	1.00	28.53	6
ATOM	9889	CB	GLN	C	834	35.226	73.770	36.917	1.00	68.17	6
ATOM	9890	CG	GLN	C	834	34.823	73.247	35.564	1.00	72.95	6
ATOM	9891	CD	GLN	C	834	35.890	72.354	34.980	1.00	75.96	6
ATOM	9892	OE1	GLN	C	834	37.039	72.767	34.815	1.00	76.56	8
ATOM	9893	NE2	GLN	C	834	35.520	71.115	34.666	1.00	77.61	7
ATOM	9894	C	GLN	C	834	34.805	75.371	38.754	1.00	25.06	6
ATOM	9895	O	GLN	C	834	34.796	76.597	38.781	1.00	24.26	8
ATOM	9896	N	VAL	C	835	35.392	74.623	39.680	1.00	13.87	7
ATOM	9897	CA	VAL	C	835	36.079	75.172	40.827	1.00	13.87	6
ATOM	9898	CB	VAL	C	835	36.346	74.104	41.828	1.00	14.75	6
ATOM	9899	CG1	VAL	C	835	37.114	74.666	42.981	1.00	14.75	6
ATOM	9900	CG2	VAL	C	835	35.053	73.524	42.271	1.00	16.67	6
ATOM	9901	C	VAL	C	835	37.407	75.791	40.449	1.00	13.87	6
ATOM	9902	O	VAL	C	835	38.408	75.104	40.255	1.00	13.87	8
ATOM	9903	N	GLY	C	836	37.398	77.112	40.382	1.00	38.13	7

ATOM	9904	CA	GLY	C	836	38.561	77.895	40.014	1.00	38.87	6
ATOM	9905	C	GLY	C	836	37.859	79.068	39.388	1.00	39.59	6
ATOM	9906	O	GLY	C	836	36.947	79.625	39.999	1.00	40.37	8
ATOM	9907	N	ASP	C	837	38.246	79.440	38.180	1.00	15.05	7
ATOM	9908	CA	ASP	C	837	37.571	80.543	37.470	1.00	17.20	6
ATOM	9909	CB	ASP	C	837	36.283	80.050	36.758	1.00	30.43	6
ATOM	9910	CG	ASP	C	837	36.204	78.534	36.625	1.00	30.90	6
ATOM	9911	OD1	ASP	C	837	35.425	78.057	35.779	1.00	31.21	8
ATOM	9912	OD2	ASP	C	837	36.896	77.810	37.365	1.00	31.70	8
ATOM	9913	C	ASP	C	837	37.195	81.840	38.229	1.00	17.18	6
ATOM	9914	O	ASP	C	837	36.721	81.837	39.379	1.00	15.72	8
ATOM	9915	N	LYS	C	838	37.393	82.956	37.537	1.00	51.34	7
ATOM	9916	CA	LYS	C	838	37.074	84.250	38.094	1.00	50.43	6
ATOM	9917	CB	LYS	C	838	38.029	85.307	37.536	1.00	41.17	6
ATOM	9918	CG	LYS	C	838	39.457	85.176	38.068	1.00	43.09	6
ATOM	9919	CD	LYS	C	838	40.381	86.221	37.470	1.00	44.30	6
ATOM	9920	CE	LYS	C	838	39.827	87.606	37.648	1.00	45.38	6
ATOM	9921	NZ	LYS	C	838	40.582	88.498	36.754	1.00	47.80	7
ATOM	9922	C	LYS	C	838	35.630	84.584	37.755	1.00	49.10	6
ATOM	9923	O	LYS	C	838	35.193	84.431	36.615	1.00	50.63	8
ATOM	9924	N	LEU	C	839	34.880	85.022	38.754	1.00	21.50	7
ATOM	9925	CA	LEU	C	839	33.500	85.352	38.523	1.00	18.88	6
ATOM	9926	CB	LEU	C	839	32.654	84.948	39.721	1.00	13.87	6
ATOM	9927	CG	LEU	C	839	31.429	84.085	39.391	1.00	13.87	6
ATOM	9928	CD1	LEU	C	839	30.827	84.533	38.074	1.00	13.87	6
ATOM	9929	CD2	LEU	C	839	31.826	82.633	39.302	1.00	13.87	6
ATOM	9930	C	LEU	C	839	33.403	86.837	38.258	1.00	18.99	6
ATOM	9931	O	LEU	C	839	32.684	87.258	37.372	1.00	19.95	8
ATOM	9932	N	ALA	C	840	34.109	87.634	39.038	1.00	13.87	7
ATOM	9933	CA	ALA	C	840	34.136	89.074	38.821	1.00	13.87	6
ATOM	9934	CB	ALA	C	840	35.382	89.406	38.064	1.00	95.91	6
ATOM	9935	C	ALA	C	840	32.946	89.759	38.133	1.00	13.87	6
ATOM	9936	O	ALA	C	840	32.643	89.504	36.970	1.00	13.87	8
ATOM	9937	N	ASN	C	841	32.308	90.676	38.858	1.00	49.24	7
ATOM	9938	CA	ASN	C	841	31.163	91.419	38.341	1.00	50.01	6
ATOM	9939	CB	ASN	C	841	30.166	91.723	39.451	1.00	20.39	6
ATOM	9940	CG	ASN	C	841	30.715	92.659	40.486	1.00	18.55	6
ATOM	9941	OD1	ASN	C	841	30.110	92.836	41.543	1.00	18.43	8
ATOM	9942	ND2	ASN	C	841	31.860	93.269	40.199	1.00	18.43	7
ATOM	9943	C	ASN	C	841	31.571	92.721	37.683	1.00	49.72	6



ATOM	9960	CD2	HIS	C	843	28.572	97.195	41.390	1.00	19.21	6
ATOM	9961	ND1	HIS	C	843	29.624	98.880	40.496	1.00	19.38	7
ATOM	9962	CE1	HIS	C	843	28.335	99.082	40.301	1.00	19.92	6
ATOM	9963	NE2	HIS	C	843	27.674	98.072	40.835	1.00	20.05	7
ATOM	9964	C	HIS	C	843	33.391	96.510	40.698	1.00	19.82	6
ATOM	9965	O	HIS	C	843	33.963	96.997	41.661	1.00	20.83	8
ATOM	9966	N	GLY	C	844	33.921	95.557	39.947	1.00	25.94	7
ATOM	9967	CA	GLY	C	844	35.243	95.051	40.242	1.00	25.22	6
ATOM	9968	C	GLY	C	844	35.308	94.143	41.446	1.00	25.40	6
ATOM	9969	O	GLY	C	844	36.258	94.234	42.219	1.00	26.35	8
ATOM	9970	N	ASN	C	845	34.313	93.275	41.620	1.00	22.56	7
ATOM	9971	CA	ASN	C	845	34.328	92.345	42.745	1.00	22.56	6
ATOM	9972	CB	ASN	C	845	32.914	92.095	43.267	1.00	42.57	6
ATOM	9973	CG	ASN	C	845	32.909	91.366	44.604	1.00	43.63	6
ATOM	9974	OD1	ASN	C	845	33.444	90.267	44.727	1.00	42.96	8
ATOM	9975	ND2	ASN	C	845	32.306	91.983	45.615	1.00	43.19	7
ATOM	9976	C	ASN	C	845	34.943	91.013	42.312	1.00	22.81	6
ATOM	9977	O	ASN	C	845	34.487	89.958	42.713	1.00	22.56	8
ATOM	9978	N	LYS	C	846	35.989	91.074	41.497	1.00	14.03	7
ATOM	9979	CA	LYS	C	846	36.652	89.882	40.995	1.00	13.87	6
ATOM	9980	CB	LYS	C	846	37.830	90.263	40.102	1.00	28.49	6
ATOM	9981	CG	LYS	C	846	38.811	91.249	40.704	1.00	31.68	6
ATOM	9982	CD	LYS	C	846	40.003	90.554	41.335	1.00	34.63	6
ATOM	9983	CE	LYS	C	846	41.150	91.540	41.528	1.00	35.89	6
ATOM	9984	NZ	LYS	C	846	41.629	92.107	40.224	1.00	34.76	7
ATOM	9985	C	LYS	C	846	37.135	88.932	42.048	1.00	13.87	6
ATOM	9986	O	LYS	C	846	37.985	89.281	42.850	1.00	13.87	8
ATOM	9987	N	GLY	C	847	36.588	87.722	42.017	1.00	27.87	7
ATOM	9988	CA	GLY	C	847	36.951	86.676	42.956	1.00	29.18	6
ATOM	9989	C	GLY	C	847	36.860	85.351	42.227	1.00	30.07	6
ATOM	9990	O	GLY	C	847	36.105	85.240	41.259	1.00	33.23	8
ATOM	9991	N	VAL	C	848	37.614	84.348	42.673	1.00	17.28	7
ATOM	9992	CA	VAL	C	848	37.610	83.027	42.031	1.00	16.07	6
ATOM	9993	CB	VAL	C	848	39.046	82.449	42.007	1.00	15.08	6
ATOM	9994	CG1	VAL	C	848	39.440	81.913	43.381	1.00	14.66	6
ATOM	9995	CG2	VAL	C	848	39.146	81.393	40.962	1.00	14.79	6
ATOM	9996	C	VAL	C	848	36.657	82.042	42.731	1.00	15.51	6
ATOM	9997	O	VAL	C	848	36.561	82.034	43.957	1.00	15.51	8
ATOM	9998	N	VAL	C	849	35.949	81.211	41.969	1.00	34.35	7
ATOM	9999	CA	VAL	C	849	35.014	80.278	42.602	1.00	35.20	6
ATOM	10000	CB	VAL	C	849	34.169	79.467	41.599	1.00	15.91	6
ATOM	10001	CG1	VAL	C	849	33.191	78.610	42.375	1.00	15.91	6
ATOM	10002	CG2	VAL	C	849	33.424	80.376	40.629	1.00	15.91	6
ATOM	10003	C	VAL	C	849	35.706	79.257	43.484	1.00	36.06	6
ATOM	10004	O	VAL	C	849	36.728	78.678	43.111	1.00	36.56	8
ATOM	10005	N	ALA	C	850	35.130	79.030	44.656	1.00	13.87	7
ATOM	10006	CA	ALA	C	850	35.682	78.075	45.598	1.00	13.87	6
ATOM	10007	CB	ALA	C	850	35.644	78.637	47.005	1.00	30.43	6
ATOM	10008	C	ALA	C	850	34.888	76.792	45.528	1.00	13.87	6
ATOM	10009	O	ALA	C	850	35.348	75.807	44.980	1.00	13.87	8
ATOM	10010	N	LYS	C	851	33.682	76.803	46.072	1.00	15.04	7
ATOM	10011	CA	LYS	C	851	32.852	75.615	46.058	1.00	16.33	6
ATOM	10012	CB	LYS	C	851	32.548	75.177	47.483	1.00	47.89	6
ATOM	10013	CG	LYS	C	851	33.670	74.453	48.154	1.00	51.90	6
ATOM	10014	CD	LYS	C	851	33.103	73.697	49.331	1.00	55.82	6
ATOM	10015	CE	LYS	C	851	34.049	72.604	49.804	1.00	58.16	6

ATOM	10016	NZ	LYS	C	851	33.488	71.855	50.970	1.00	61.84	7
ATOM	10017	C	LYS	C	851	31.545	75.811	45.314	1.00	17.23	6
ATOM	10018	O	LYS	C	851	31.112	76.932	45.075	1.00	16.53	8
ATOM	10019	N	ILE	C	852	30.927	74.705	44.930	1.00	30.21	7
ATOM	10020	CA	ILE	C	852	29.638	74.742	44.269	1.00	31.21	6
ATOM	10021	CB	ILE	C	852	29.695	74.259	42.809	1.00	45.44	6
ATOM	10022	CG2	ILE	C	852	30.195	75.359	41.907	1.00	46.68	6
ATOM	10023	CG1	ILE	C	852	30.589	73.025	42.702	1.00	47.88	6
ATOM	10024	CD1	ILE	C	852	32.054	73.276	43.035	1.00	47.76	6
ATOM	10025	C	ILE	C	852	28.839	73.756	45.091	1.00	31.45	6
ATOM	10026	O	ILE	C	852	29.029	72.554	44.981	1.00	33.97	8
ATOM	10027	N	LEU	C	853	27.974	74.277	45.950	1.00	32.11	7
ATOM	10028	CA	LEU	C	853	27.147	73.456	46.818	1.00	32.54	6
ATOM	10029	CB	LEU	C	853	26.733	74.256	48.053	1.00	33.03	6
ATOM	10030	CG	LEU	C	853	27.652	74.338	49.272	1.00	34.33	6
ATOM	10031	CD1	LEU	C	853	29.102	74.497	48.862	1.00	33.26	6
ATOM	10032	CD2	LEU	C	853	27.192	75.506	50.142	1.00	33.78	6
ATOM	10033	C	LEU	C	853	25.892	72.950	46.112	1.00	32.54	6
ATOM	10034	O	LEU	C	853	25.429	73.538	45.129	1.00	33.26	8
ATOM	10035	N	PRO	C	854	25.324	71.842	46.614	1.00	15.91	7
ATOM	10036	CD	PRO	C	854	25.876	71.064	47.741	1.00	21.01	6
ATOM	10037	CA	PRO	C	854	24.114	71.211	46.081	1.00	15.76	6
ATOM	10038	CB	PRO	C	854	24.149	69.845	46.730	1.00	21.46	6
ATOM	10039	CG	PRO	C	854	24.742	70.151	48.093	1.00	21.49	6
ATOM	10040	C	PRO	C	854	22.939	72.036	46.563	1.00	15.96	6
ATOM	10041	O	PRO	C	854	22.963	72.518	47.693	1.00	16.82	8
ATOM	10042	N	VAL	C	855	21.913	72.208	45.736	1.00	13.99	7
ATOM	10043	CA	VAL	C	855	20.772	73.019	46.158	1.00	14.16	6
ATOM	10044	CB	VAL	C	855	19.572	72.873	45.191	1.00	15.96	6
ATOM	10045	CG1	VAL	C	855	20.021	73.048	43.759	1.00	15.79	6
ATOM	10046	CG2	VAL	C	855	18.933	71.538	45.370	1.00	16.37	6
ATOM	10047	C	VAL	C	855	20.328	72.636	47.577	1.00	15.92	6
ATOM	10048	O	VAL	C	855	19.685	73.444	48.261	1.00	14.68	8
ATOM	10049	N	GLU	C	856	20.684	71.406	47.994	1.00	47.18	7
ATOM	10050	CA	GLU	C	856	20.367	70.852	49.326	1.00	49.10	6
ATOM	10051	CB	GLU	C	856	21.216	69.613	49.641	1.00	76.95	6
ATOM	10052	CG	GLU	C	856	21.317	68.541	48.575	1.00	79.55	6
ATOM	10053	CD	GLU	C	856	22.169	67.352	49.041	1.00	81.76	6
ATOM	10054	OE1	GLU	C	856	21.821	66.728	50.067	1.00	82.70	8
ATOM	10055	OE2	GLU	C	856	23.188	67.042	48.386	1.00	82.38	8
ATOM	10056	C	GLU	C	856	20.706	71.896	50.380	1.00	49.17	6
ATOM	10057	O	GLU	C	856	19.829	72.501	51.003	1.00	48.86	8
ATOM	10058	N	ASP	C	857	22.008	72.060	50.590	1.00	29.03	7
ATOM	10059	CA	ASP	C	857	22.543	73.043	51.510	1.00	30.39	6
ATOM	10060	CB	ASP	C	857	24.056	72.915	51.579	1.00	31.58	6
ATOM	10061	CG	ASP	C	857	24.514	71.558	52.070	1.00	32.45	6
ATOM	10062	OD1	ASP	C	857	24.547	71.347	53.310	1.00	32.14	8
ATOM	10063	OD2	ASP	C	857	24.847	70.707	51.206	1.00	32.10	8
ATOM	10064	C	ASP	C	857	22.193	74.366	50.834	1.00	32.77	6
ATOM	10065	O	ASP	C	857	21.254	74.422	50.031	1.00	33.91	8
ATOM	10066	N	MET	C	858	22.945	75.423	51.130	1.00	44.36	7
ATOM	10067	CA	MET	C	858	22.690	76.724	50.512	1.00	46.64	6
ATOM	10068	CB	MET	C	858	22.422	76.583	49.005	1.00	52.89	6
ATOM	10069	CG	MET	C	858	23.611	76.178	48.158	1.00	53.88	6
ATOM	10070	SD	MET	C	858	24.764	77.516	47.938	1.00	53.56	16
ATOM	10071	CE	MET	C	858	23.670	78.836	47.358	1.00	51.17	6

ATOM	10072	C	MET	C	858	21.515	77.479	51.103	1.00	47.41	6
ATOM	10073	O	MET	C	858	20.402	76.966	51.163	1.00	47.52	8
ATOM	10074	N	PRO	C	859	21.756	78.716	51.548	1.00	45.14	7
ATOM	10075	CD	PRO	C	859	23.102	79.260	51.784	1.00	35.63	6
ATOM	10076	CA	PRO	C	859	20.753	79.599	52.131	1.00	46.72	6
ATOM	10077	CB	PRO	C	859	21.414	80.952	51.997	1.00	36.25	6
ATOM	10078	CG	PRO	C	859	22.817	80.627	52.396	1.00	36.31	6
ATOM	10079	C	PRO	C	859	19.393	79.528	51.421	1.00	47.95	6
ATOM	10080	O	PRO	C	859	19.257	79.935	50.260	1.00	47.86	8
ATOM	10081	N	HIS	C	860	18.407	78.985	52.138	1.00	63.92	7
ATOM	10082	CA	HIS	C	860	17.036	78.822	51.659	1.00	63.67	6
ATOM	10083	CB	HIS	C	860	16.332	77.716	52.477	1.00	52.57	6
ATOM	10084	CG	HIS	C	860	16.073	76.455	51.709	1.00	54.47	6
ATOM	10085	CD2	HIS	C	860	16.692	75.252	51.733	1.00	55.68	6
ATOM	10086	ND1	HIS	C	860	15.086	76.352	50.752	1.00	55.79	7
ATOM	10087	CE1	HIS	C	860	15.109	75.143	50.218	1.00	55.08	6
ATOM	10088	NE2	HIS	C	860	16.076	74.454	50.796	1.00	55.90	7
ATOM	10089	C	HIS	C	860	16.322	80.148	51.877	1.00	62.95	6
ATOM	10090	O	HIS	C	860	16.423	80.720	52.953	1.00	63.85	8
ATOM	10091	N	LEU	C	861	15.638	80.670	50.869	1.00	65.05	7
ATOM	10092	CA	LEU	C	861	14.901	81.910	51.091	1.00	65.21	6
ATOM	10093	CB	LEU	C	861	14.490	82.567	49.771	1.00	25.82	6
ATOM	10094	CG	LEU	C	861	14.298	84.089	49.799	1.00	24.82	6
ATOM	10095	CD1	LEU	C	861	15.665	84.764	49.811	1.00	23.70	6
ATOM	10096	CD2	LEU	C	861	13.492	84.550	48.600	1.00	23.90	6
ATOM	10097	C	LEU	C	861	13.680	81.331	51.795	1.00	66.71	6
ATOM	10098	O	LEU	C	861	13.516	80.110	51.809	1.00	68.75	8
ATOM	10099	N	PRO	C	862	12.803	82.170	52.375	1.00	74.55	7
ATOM	10100	CD	PRO	C	862	12.667	83.631	52.284	1.00	91.58	6
ATOM	10101	CA	PRO	C	862	11.638	81.592	53.053	1.00	72.97	6
ATOM	10102	CB	PRO	C	862	10.854	82.823	53.489	1.00	90.68	6
ATOM	10103	CG	PRO	C	862	11.177	83.808	52.414	1.00	92.13	6
ATOM	10104	C	PRO	C	862	10.802	80.634	52.207	1.00	71.31	6
ATOM	10105	O	PRO	C	862	10.680	79.451	52.537	1.00	71.81	8
ATOM	10106	N	ASP	C	863	10.238	81.137	51.114	1.00	34.21	7
ATOM	10107	CA	ASP	C	863	9.403	80.312	50.252	1.00	32.54	6
ATOM	10108	CB	ASP	C	863	8.863	81.146	49.096	1.00	51.46	6
ATOM	10109	CG	ASP	C	863	9.958	81.642	48.191	1.00	52.55	6
ATOM	10110	OD1	ASP	C	863	9.676	82.477	47.305	1.00	52.96	8
ATOM	10111	OD2	ASP	C	863	11.109	81.188	48.365	1.00	53.95	8
ATOM	10112	C	ASP	C	863	10.133	79.090	49.707	1.00	30.63	6
ATOM	10113	O	ASP	C	863	9.537	78.254	49.037	1.00	29.45	8
ATOM	10114	N	GLY	C	864	11.426	78.984	49.975	1.00	66.70	7
ATOM	10115	CA	GLY	C	864	12.153	77.824	49.497	1.00	65.94	6
ATOM	10116	C	GLY	C	864	13.085	78.016	48.317	1.00	64.47	6
ATOM	10117	O	GLY	C	864	13.931	77.151	48.051	1.00	65.00	8
ATOM	10118	N	THR	C	865	12.937	79.117	47.587	1.00	24.19	7
ATOM	10119	CA	THR	C	865	13.830	79.342	46.460	1.00	22.01	6
ATOM	10120	CB	THR	C	865	13.563	80.693	45.730	1.00	25.34	6
ATOM	10121	OG1	THR	C	865	13.624	81.776	46.668	1.00	24.62	8
ATOM	10122	CG2	THR	C	865	12.207	80.675	45.029	1.00	25.49	6
ATOM	10123	C	THR	C	865	15.213	79.381	47.079	1.00	20.25	6
ATOM	10124	O	THR	C	865	15.359	79.776	48.234	1.00	20.27	8
ATOM	10125	N	PRO	C	866	16.239	78.929	46.341	1.00	19.38	7
ATOM	10126	CD	PRO	C	866	16.176	78.105	45.118	1.00	30.86	6
ATOM	10127	CA	PRO	C	866	17.602	78.938	46.865	1.00	17.70	6

ATOM	10128	CB	PRO	C	866	18.203	77.699	46.240	1.00	29.62	6
ATOM	10129	CG	PRO	C	866	17.659	77.798	44.838	1.00	29.65	6
ATOM	10130	C	PRO	C	866	18.298	80.173	46.351	1.00	16.75	6
ATOM	10131	O	PRO	C	866	17.875	80.759	45.347	1.00	15.08	8
ATOM	10132	N	VAL	C	867	19.364	80.571	47.027	1.00	24.38	7
ATOM	10133	CA	VAL	C	867	20.107	81.718	46.555	1.00	24.88	6
ATOM	10134	CB	VAL	C	867	20.968	82.302	47.672	1.00	40.48	6
ATOM	10135	CG1	VAL	C	867	21.400	83.712	47.311	1.00	40.84	6
ATOM	10136	CG2	VAL	C	867	20.187	82.301	48.957	1.00	39.45	6
ATOM	10137	C	VAL	C	867	20.978	81.152	45.420	1.00	25.01	6
ATOM	10138	O	VAL	C	867	20.871	79.969	45.099	1.00	24.57	8
ATOM	10139	N	ASP	C	868	21.813	81.969	44.792	1.00	25.79	7
ATOM	10140	CA	ASP	C	868	22.639	81.447	43.717	1.00	28.08	6
ATOM	10141	CB	ASP	C	868	22.328	82.177	42.407	1.00	45.92	6
ATOM	10142	CG	ASP	C	868	20.984	81.759	41.807	1.00	50.99	6
ATOM	10143	OD1	ASP	C	868	20.740	80.539	41.679	1.00	54.02	8
ATOM	10144	OD2	ASP	C	868	20.175	82.641	41.445	1.00	51.57	8
ATOM	10145	C	ASP	C	868	24.127	81.522	44.041	1.00	27.89	6
ATOM	10146	O	ASP	C	868	24.825	80.505	44.014	1.00	29.18	8
ATOM	10147	N	VAL	C	869	24.610	82.722	44.354	1.00	13.87	7
ATOM	10148	CA	VAL	C	869	26.009	82.922	44.691	1.00	13.87	6
ATOM	10149	CB	VAL	C	869	26.691	83.807	43.643	1.00	13.87	6
ATOM	10150	CG1	VAL	C	869	25.818	84.943	43.268	1.00	13.87	6
ATOM	10151	CG2	VAL	C	869	27.936	84.339	44.177	1.00	13.87	6
ATOM	10152	C	VAL	C	869	26.119	83.539	46.080	1.00	13.87	6
ATOM	10153	O	VAL	C	869	25.347	84.412	46.428	1.00	13.87	8
ATOM	10154	N	ILE	C	870	27.062	83.059	46.883	1.00	20.02	7
ATOM	10155	CA	ILE	C	870	27.264	83.566	48.237	1.00	19.94	6
ATOM	10156	CB	ILE	C	870	27.458	82.415	49.248	1.00	16.17	6
ATOM	10157	CG2	ILE	C	870	27.485	82.960	50.665	1.00	15.37	6
ATOM	10158	CG1	ILE	C	870	26.313	81.415	49.139	1.00	15.26	6
ATOM	10159	CD1	ILE	C	870	24.961	82.086	49.153	1.00	17.33	6
ATOM	10160	C	ILE	C	870	28.480	84.484	48.333	1.00	21.12	6
ATOM	10161	O	ILE	C	870	29.466	84.149	48.987	1.00	19.61	8
ATOM	10162	N	LEU	C	871	28.396	85.634	47.666	1.00	29.23	7
ATOM	10163	CA	LEU	C	871	29.450	86.652	47.649	1.00	30.67	6
ATOM	10164	CB	LEU	C	871	28.987	87.862	46.831	1.00	25.22	6
ATOM	10165	CG	LEU	C	871	29.698	88.283	45.537	1.00	27.31	6
ATOM	10166	CD1	LEU	C	871	29.835	87.116	44.576	1.00	26.76	6
ATOM	10167	CD2	LEU	C	871	28.911	89.422	44.894	1.00	26.18	6
ATOM	10168	C	LEU	C	871	29.755	87.102	49.078	1.00	31.91	6
ATOM	10169	O	LEU	C	871	28.861	87.514	49.816	1.00	32.07	8
ATOM	10170	N	ASN	C	872	31.024	87.033	49.461	1.00	63.95	7
ATOM	10171	CA	ASN	C	872	31.436	87.419	50.803	1.00	65.14	6
ATOM	10172	CB	ASN	C	872	32.814	86.861	51.117	1.00	62.52	6
ATOM	10173	CG	ASN	C	872	33.335	87.352	52.439	1.00	63.43	6
ATOM	10174	OD1	ASN	C	872	32.982	86.825	53.488	1.00	62.80	8
ATOM	10175	ND2	ASN	C	872	34.165	88.384	52.400	1.00	65.14	7
ATOM	10176	C	ASN	C	872	31.487	88.923	50.981	1.00	65.36	6
ATOM	10177	O	ASN	C	872	31.863	89.651	50.065	1.00	65.44	8
ATOM	10178	N	PRO	C	873	31.115	89.408	52.175	1.00	24.18	7
ATOM	10179	CD	PRO	C	873	30.480	88.651	53.270	1.00	49.41	6
ATOM	10180	CA	PRO	C	873	31.124	90.837	52.474	1.00	22.58	6
ATOM	10181	CB	PRO	C	873	30.085	90.960	53.573	1.00	47.18	6
ATOM	10182	CG	PRO	C	873	30.298	89.707	54.349	1.00	49.17	6
ATOM	10183	C	PRO	C	873	32.501	91.226	52.952	1.00	21.55	6

ATOM	10184	O	PRO	C	873	33.189	92.005	52.322	1.00	21.51	8
ATOM	10185	N	LEU	C	874	32.905	90.646	54.066	1.00	22.64	7
ATOM	10186	CA	LEU	C	874	34.197	90.935	54.660	1.00	24.20	6
ATOM	10187	CB	LEU	C	874	34.802	89.675	55.245	1.00	19.69	6
ATOM	10188	CG	LEU	C	874	35.431	89.954	56.589	1.00	17.49	6
ATOM	10189	CD1	LEU	C	874	34.488	90.845	57.436	1.00	19.96	6
ATOM	10190	CD2	LEU	C	874	35.711	88.636	57.248	1.00	15.59	6
ATOM	10191	C	LEU	C	874	35.171	91.560	53.694	1.00	26.40	6
ATOM	10192	O	LEU	C	874	35.351	91.094	52.554	1.00	24.93	8
ATOM	10193	N	GLY	C	875	35.820	92.614	54.167	1.00	35.44	7
ATOM	10194	CA	GLY	C	875	36.736	93.329	53.314	1.00	39.71	6
ATOM	10195	C	GLY	C	875	35.945	93.793	52.098	1.00	42.49	6
ATOM	10196	O	GLY	C	875	35.373	94.890	52.082	1.00	41.40	8
ATOM	10197	N	VAL	C	876	35.889	92.921	51.096	1.00	88.65	7
ATOM	10198	CA	VAL	C	876	35.203	93.188	49.846	1.00	90.76	6
ATOM	10199	CB	VAL	C	876	34.167	92.101	49.540	1.00	138.75	6
ATOM	10200	CG1	VAL	C	876	33.611	92.305	48.141	1.00	138.36	6
ATOM	10201	CG2	VAL	C	876	34.803	90.733	49.678	1.00	140.60	6
ATOM	10202	C	VAL	C	876	34.549	94.564	49.756	1.00	90.90	6
ATOM	10203	O	VAL	C	876	35.105	95.459	49.119	1.00	92.43	8
ATOM	10204	N	PRO	C	877	33.374	94.773	50.392	1.00	41.75	7
ATOM	10205	CD	PRO	C	877	32.308	93.935	50.975	1.00	30.43	6
ATOM	10206	CA	PRO	C	877	32.895	96.143	50.194	1.00	40.40	6
ATOM	10207	CB	PRO	C	877	31.393	96.032	50.524	1.00	28.90	6
ATOM	10208	CG	PRO	C	877	31.339	94.945	51.520	1.00	30.32	6
ATOM	10209	C	PRO	C	877	33.665	97.161	51.033	1.00	38.59	6
ATOM	10210	O	PRO	C	877	34.267	98.086	50.502	1.00	38.67	8
ATOM	10211	N	SER	C	878	33.660	96.965	52.340	1.00	16.22	7
ATOM	10212	CA	SER	C	878	34.359	97.848	53.251	1.00	15.21	6
ATOM	10213	CB	SER	C	878	34.472	97.149	54.578	1.00	28.46	6
ATOM	10214	OG	SER	C	878	34.790	95.801	54.305	1.00	25.61	8
ATOM	10215	C	SER	C	878	35.750	98.168	52.719	1.00	15.74	6
ATOM	10216	O	SER	C	878	36.062	99.322	52.438	1.00	14.86	8
ATOM	10217	N	ARG	C	879	36.581	97.136	52.586	1.00	46.60	7
ATOM	10218	CA	ARG	C	879	37.943	97.292	52.078	1.00	47.67	6
ATOM	10219	CB	ARG	C	879	38.572	95.926	51.784	1.00	65.31	6
ATOM	10220	CG	ARG	C	879	39.124	95.170	52.990	1.00	69.39	6
ATOM	10221	CD	ARG	C	879	39.713	93.827	52.557	1.00	71.49	6
ATOM	10222	NE	ARG	C	879	40.361	93.109	53.653	1.00	75.91	7
ATOM	10223	CZ	ARG	C	879	40.935	91.911	53.526	1.00	78.34	6
ATOM	10224	NH1	ARG	C	879	40.936	91.299	52.345	1.00	79.75	7
ATOM	10225	NH2	ARG	C	879	41.510	91.321	54.573	1.00	77.37	7
ATOM	10226	C	ARG	C	879	37.987	98.123	50.804	1.00	46.80	6
ATOM	10227	O	ARG	C	879	38.732	99.094	50.728	1.00	47.93	8
ATOM	10228	N	MET	C	880	37.183	97.741	49.810	1.00	24.76	7
ATOM	10229	CA	MET	C	880	37.147	98.435	48.517	1.00	22.28	6
ATOM	10230	CB	MET	C	880	36.880	97.427	47.395	1.00	60.39	6
ATOM	10231	CG	MET	C	880	37.912	96.309	47.273	1.00	62.40	6
ATOM	10232	SD	MET	C	880	37.903	95.102	48.629	1.00	63.95	16
ATOM	10233	CE	MET	C	880	38.835	93.688	47.883	1.00	60.88	6
ATOM	10234	C	MET	C	880	36.145	99.588	48.375	1.00	20.22	6
ATOM	10235	O	MET	C	880	36.201	100.333	47.403	1.00	19.81	8
ATOM	10236	N	ASN	C	881	35.255	99.748	49.349	1.00	17.01	7
ATOM	10237	CA	ASN	C	881	34.230	100.790	49.308	1.00	14.46	6
ATOM	10238	CB	ASN	C	881	34.720	102.131	49.864	1.00	19.58	6
ATOM	10239	CG	ASN	C	881	36.210	102.274	49.838	1.00	20.04	6

ATOM	10240	OD1	ASN	C	881	36.741	103.305	49.422	1.00	21.91	8
ATOM	10241	ND2	ASN	C	881	36.904	101.257	50.315	1.00	20.68	7
ATOM	10242	C	ASN	C	881	33.692	101.002	47.920	1.00	13.87	6
ATOM	10243	O	ASN	C	881	34.295	101.684	47.116	1.00	13.87	8
ATOM	10244	N	LEU	C	882	32.524	100.420	47.670	1.00	51.63	7
ATOM	10245	CA	LEU	C	882	31.876	100.495	46.374	1.00	53.27	6
ATOM	10246	CB	LEU	C	882	32.490	99.424	45.468	1.00	19.17	6
ATOM	10247	CG	LEU	C	882	32.657	98.023	46.080	1.00	17.88	6
ATOM	10248	CD1	LEU	C	882	33.303	97.111	45.059	1.00	18.68	6
ATOM	10249	CD2	LEU	C	882	33.529	98.062	47.321	1.00	17.17	6
ATOM	10250	C	LEU	C	882	30.335	100.361	46.436	1.00	55.80	6
ATOM	10251	O	LEU	C	882	29.734	100.224	47.515	1.00	56.16	8
ATOM	10252	N	GLY	C	883	29.706	100.428	45.265	1.00	66.41	7
ATOM	10253	CA	GLY	C	883	28.259	100.328	45.178	1.00	68.46	6
ATOM	10254	C	GLY	C	883	27.731	99.081	44.479	1.00	71.24	6
ATOM	10255	O	GLY	C	883	26.817	99.171	43.653	1.00	73.20	8
ATOM	10256	N	GLN	C	884	28.310	97.921	44.799	1.00	62.65	7
ATOM	10257	CA	GLN	C	884	27.874	96.647	44.234	1.00	58.56	6
ATOM	10258	CB	GLN	C	884	28.962	95.574	44.378	1.00	21.91	6
ATOM	10259	CG	GLN	C	884	29.676	95.550	45.734	1.00	18.03	6
ATOM	10260	CD	GLN	C	884	30.662	94.400	45.858	1.00	15.22	6
ATOM	10261	OE1	GLN	C	884	30.296	93.246	45.649	1.00	13.87	8
ATOM	10262	NE2	GLN	C	884	31.914	94.708	46.203	1.00	13.87	7
ATOM	10263	C	GLN	C	884	26.639	96.229	44.996	1.00	57.37	6
ATOM	10264	O	GLN	C	884	26.055	95.188	44.733	1.00	58.54	8
ATOM	10265	N	ILE	C	885	26.257	97.059	45.959	1.00	69.69	7
ATOM	10266	CA	ILE	C	885	25.083	96.806	46.768	1.00	68.35	6
ATOM	10267	CB	ILE	C	885	25.244	97.392	48.181	1.00	13.87	6
ATOM	10268	CG2	ILE	C	885	23.906	97.486	48.854	1.00	13.87	6
ATOM	10269	CG1	ILE	C	885	26.111	96.480	49.032	1.00	13.87	6
ATOM	10270	CD1	ILE	C	885	27.491	96.388	48.562	1.00	13.87	6
ATOM	10271	C	ILE	C	885	23.857	97.413	46.081	1.00	70.41	6
ATOM	10272	O	ILE	C	885	22.909	96.697	45.752	1.00	70.98	8
ATOM	10273	N	LEU	C	886	23.860	98.724	45.868	1.00	50.09	7
ATOM	10274	CA	LEU	C	886	22.731	99.338	45.187	1.00	50.40	6
ATOM	10275	CB	LEU	C	886	22.964	100.831	44.949	1.00	31.30	6
ATOM	10276	CG	LEU	C	886	23.251	101.847	46.053	1.00	29.77	6
ATOM	10277	CD1	LEU	C	886	22.945	103.171	45.433	1.00	28.98	6
ATOM	10278	CD2	LEU	C	886	22.402	101.678	47.315	1.00	29.77	6
ATOM	10279	C	LEU	C	886	22.642	98.622	43.840	1.00	50.97	6
ATOM	10280	O	LEU	C	886	23.254	99.035	42.858	1.00	51.31	8
ATOM	10281	N	GLU	C	887	21.887	97.536	43.813	1.00	73.13	7
ATOM	10282	CA	GLU	C	887	21.705	96.714	42.621	1.00	73.48	6
ATOM	10283	CB	GLU	C	887	23.031	96.444	41.890	1.00	45.79	6
ATOM	10284	CG	GLU	C	887	22.897	95.396	40.756	1.00	46.01	6
ATOM	10285	CD	GLU	C	887	24.226	94.969	40.135	1.00	45.65	6
ATOM	10286	OE1	GLU	C	887	24.961	95.823	39.583	1.00	44.07	8
ATOM	10287	OE2	GLU	C	887	24.525	93.759	40.199	1.00	46.39	8
ATOM	10288	C	GLU	C	887	21.210	95.418	43.194	1.00	72.66	6
ATOM	10289	O	GLU	C	887	20.327	94.772	42.652	1.00	73.29	8
ATOM	10290	N	THR	C	888	21.828	95.047	44.303	1.00	18.17	7
ATOM	10291	CA	THR	C	888	21.487	93.851	45.023	1.00	15.33	6
ATOM	10292	CB	THR	C	888	22.585	93.541	45.959	1.00	13.87	6
ATOM	10293	OG1	THR	C	888	23.802	93.930	45.324	1.00	13.87	8
ATOM	10294	CG2	THR	C	888	22.614	92.051	46.293	1.00	13.87	6
ATOM	10295	C	THR	C	888	20.234	94.213	45.792	1.00	16.41	6

ATOM	10296	O	THR	C	888	19.386	93.361	46.071	1.00	16.99	8
ATOM	10297	N	HIS	C	889	20.137	95.497	46.137	1.00	32.23	7
ATOM	10298	CA	HIS	C	889	18.979	96.033	46.831	1.00	32.75	6
ATOM	10299	CB	HIS	C	889	19.329	97.333	47.539	1.00	39.22	6
ATOM	10300	CG	HIS	C	889	20.145	97.137	48.777	1.00	39.27	6
ATOM	10301	CD2	HIS	C	889	20.992	96.145	49.142	1.00	38.72	6
ATOM	10302	ND1	HIS	C	889	20.135	98.035	49.821	1.00	40.02	7
ATOM	10303	CE1	HIS	C	889	20.939	97.604	50.777	1.00	39.04	6
ATOM	10304	NE2	HIS	C	889	21.474	96.459	50.391	1.00	38.17	7
ATOM	10305	C	HIS	C	889	17.952	96.281	45.740	1.00	33.38	6
ATOM	10306	O	HIS	C	889	16.850	95.732	45.788	1.00	34.33	8
ATOM	10307	N	LEU	C	890	18.296	97.091	44.739	1.00	18.78	7
ATOM	10308	CA	LEU	C	890	17.352	97.293	43.645	1.00	18.34	6
ATOM	10309	CB	LEU	C	890	17.837	98.355	42.667	1.00	13.87	6
ATOM	10310	CG	LEU	C	890	16.915	98.456	41.452	1.00	13.87	6
ATOM	10311	CD1	LEU	C	890	15.643	99.165	41.840	1.00	13.87	6
ATOM	10312	CD2	LEU	C	890	17.604	99.158	40.334	1.00	13.87	6
ATOM	10313	C	LEU	C	890	17.285	95.946	42.920	1.00	19.41	6
ATOM	10314	O	LEU	C	890	16.892	95.861	41.762	1.00	19.66	8
ATOM	10315	N	GLY	C	891	17.676	94.890	43.623	1.00	60.57	7
ATOM	10316	CA	GLY	C	891	17.682	93.560	43.042	1.00	63.51	6
ATOM	10317	C	GLY	C	891	16.382	92.814	43.186	1.00	64.40	6
ATOM	10318	O	GLY	C	891	15.733	92.497	42.190	1.00	65.49	8
ATOM	10319	N	LEU	C	892	16.001	92.510	44.420	1.00	34.08	7
ATOM	10320	CA	LEU	C	892	14.749	91.804	44.620	1.00	33.79	6
ATOM	10321	CB	LEU	C	892	14.633	91.282	46.049	1.00	28.52	6
ATOM	10322	CG	LEU	C	892	14.848	92.212	47.212	1.00	27.72	6
ATOM	10323	CD1	LEU	C	892	15.482	91.388	48.297	1.00	27.36	6
ATOM	10324	CD2	LEU	C	892	15.738	93.357	46.826	1.00	25.52	6
ATOM	10325	C	LEU	C	892	13.663	92.792	44.284	1.00	33.60	6
ATOM	10326	O	LEU	C	892	12.543	92.421	43.918	1.00	33.48	8
ATOM	10327	N	ALA	C	893	14.026	94.064	44.383	1.00	62.28	7
ATOM	10328	CA	ALA	C	893	13.115	95.140	44.039	1.00	63.02	6
ATOM	10329	CB	ALA	C	893	13.581	96.448	44.660	1.00	117.47	6
ATOM	10330	C	ALA	C	893	13.211	95.196	42.519	1.00	62.12	6
ATOM	10331	O	ALA	C	893	13.429	96.246	41.919	1.00	62.53	8
ATOM	10332	N	GLY	C	894	13.060	94.028	41.913	1.00	23.96	7
ATOM	10333	CA	GLY	C	894	13.148	93.915	40.479	1.00	22.93	6
ATOM	10334	C	GLY	C	894	13.160	92.432	40.213	1.00	22.79	6
ATOM	10335	O	GLY	C	894	13.377	91.959	39.095	1.00	23.57	8
ATOM	10336	N	TYR	C	895	12.957	91.678	41.275	1.00	25.96	7
ATOM	10337	CA	TYR	C	895	12.896	90.244	41.146	1.00	25.66	6
ATOM	10338	CB	TYR	C	895	13.561	89.614	42.356	1.00	23.90	6
ATOM	10339	CG	TYR	C	895	13.542	88.111	42.429	1.00	22.18	6
ATOM	10340	CD1	TYR	C	895	13.895	87.331	41.338	1.00	21.01	6
ATOM	10341	CE1	TYR	C	895	14.002	85.946	41.460	1.00	21.27	6
ATOM	10342	CD2	TYR	C	895	13.283	87.471	43.642	1.00	21.87	6
ATOM	10343	CE2	TYR	C	895	13.392	86.095	43.777	1.00	20.71	6
ATOM	10344	CZ	TYR	C	895	13.756	85.339	42.687	1.00	20.90	6
ATOM	10345	OH	TYR	C	895	13.916	83.983	42.839	1.00	21.62	8
ATOM	10346	C	TYR	C	895	11.389	90.020	41.147	1.00	26.84	6
ATOM	10347	O	TYR	C	895	10.783	89.748	40.097	1.00	26.90	8
ATOM	10348	N	PHE	C	896	10.785	90.204	42.321	1.00	34.06	7
ATOM	10349	CA	PHE	C	896	9.347	90.041	42.504	1.00	35.20	6
ATOM	10350	CB	PHE	C	896	9.009	90.241	43.968	1.00	27.57	6
ATOM	10351	CG	PHE	C	896	9.814	89.398	44.874	1.00	26.38	6

ATOM	10352	CD1	PHE	C	896	11.089	89.785	45.240	1.00	25.96	6
ATOM	10353	CD2	PHE	C	896	9.294	88.215	45.375	1.00	27.46	6
ATOM	10354	CE1	PHE	C	896	11.843	89.002	46.104	1.00	27.11	6
ATOM	10355	CE2	PHE	C	896	10.028	87.421	46.233	1.00	28.63	6
ATOM	10356	CZ	PHE	C	896	11.309	87.813	46.605	1.00	28.80	6
ATOM	10357	C	PHE	C	896	8.510	91.000	41.652	1.00	36.70	6
ATOM	10358	O	PHE	C	896	7.360	90.716	41.305	1.00	36.27	8
ATOM	10359	N	LEU	C	897	9.089	92.142	41.320	1.00	58.51	7
ATOM	10360	CA	LEU	C	897	8.384	93.114	40.514	1.00	60.85	6
ATOM	10361	CB	LEU	C	897	8.817	94.517	40.923	1.00	42.83	6
ATOM	10362	CG	LEU	C	897	7.724	95.579	41.013	1.00	42.87	6
ATOM	10363	CD1	LEU	C	897	6.707	95.182	42.071	1.00	43.38	6
ATOM	10364	CD2	LEU	C	897	8.354	96.907	41.369	1.00	43.44	6
ATOM	10365	C	LEU	C	897	8.671	92.884	39.025	1.00	61.83	6
ATOM	10366	O	LEU	C	897	8.295	93.706	38.189	1.00	62.46	8
ATOM	10367	N	GLY	C	898	9.324	91.763	38.704	1.00	38.99	7
ATOM	10368	CA	GLY	C	898	9.661	91.456	37.322	1.00	39.51	6
ATOM	10369	C	GLY	C	898	10.033	92.716	36.563	1.00	39.35	6
ATOM	10370	O	GLY	C	898	9.219	93.252	35.819	1.00	38.82	8
ATOM	10371	N	GLN	C	899	11.261	93.193	36.749	1.00	40.96	7
ATOM	10372	CA	GLN	C	899	11.712	94.416	36.097	1.00	42.62	6
ATOM	10373	CB	GLN	C	899	11.332	95.630	36.950	1.00	41.92	6
ATOM	10374	CG	GLN	C	899	9.883	96.045	36.921	1.00	46.22	6
ATOM	10375	CD	GLN	C	899	9.617	97.280	37.768	1.00	48.59	6
ATOM	10376	OE1	GLN	C	899	9.692	97.234	38.992	1.00	49.74	8
ATOM	10377	NE2	GLN	C	899	9.311	98.395	37.111	1.00	50.31	7
ATOM	10378	C	GLN	C	899	13.211	94.523	35.837	1.00	41.70	6
ATOM	10379	O	GLN	C	899	14.030	94.068	36.633	1.00	40.67	8
ATOM	10380	N	ARG	C	900	13.564	95.135	34.714	1.00	34.30	7
ATOM	10381	CA	ARG	C	900	14.963	95.406	34.410	1.00	34.45	6
ATOM	10382	CB	ARG	C	900	15.275	95.093	32.936	1.00	69.44	6
ATOM	10383	CG	ARG	C	900	15.347	93.590	32.616	1.00	72.22	6
ATOM	10384	CD	ARG	C	900	16.080	93.265	31.293	1.00	74.51	6
ATOM	10385	NE	ARG	C	900	15.222	93.302	30.102	1.00	77.19	7
ATOM	10386	CZ	ARG	C	900	15.629	92.999	28.867	1.00	79.00	6
ATOM	10387	NH1	ARG	C	900	16.886	92.636	28.640	1.00	79.20	7
ATOM	10388	NH2	ARG	C	900	14.779	93.043	27.850	1.00	80.28	7
ATOM	10389	C	ARG	C	900	15.064	96.927	34.729	1.00	32.73	6
ATOM	10390	O	ARG	C	900	14.042	97.616	34.797	1.00	31.77	8
ATOM	10391	N	TYR	C	901	16.256	97.467	34.959	1.00	28.86	7
ATOM	10392	CA	TYR	C	901	16.333	98.884	35.299	1.00	27.06	6
ATOM	10393	CB	TYR	C	901	16.461	99.057	36.816	1.00	51.17	6
ATOM	10394	CG	TYR	C	901	15.344	98.445	37.637	1.00	54.33	6
ATOM	10395	CD1	TYR	C	901	15.087	97.082	37.587	1.00	56.21	6
ATOM	10396	CE1	TYR	C	901	14.067	96.511	38.332	1.00	56.58	6
ATOM	10397	CD2	TYR	C	901	14.546	99.232	38.469	1.00	54.81	6
ATOM	10398	CE2	TYR	C	901	13.519	98.667	39.227	1.00	55.85	6
ATOM	10399	CZ	TYR	C	901	13.287	97.303	39.146	1.00	56.44	6
ATOM	10400	OH	TYR	C	901	12.266	96.719	39.850	1.00	57.80	8
ATOM	10401	C	TYR	C	901	17.463	99.650	34.627	1.00	25.11	6
ATOM	10402	O	TYR	C	901	18.541	99.111	34.388	1.00	23.97	8
ATOM	10403	N	ILE	C	902	17.194	100.922	34.337	1.00	36.72	7
ATOM	10404	CA	ILE	C	902	18.157	101.815	33.702	1.00	35.73	6
ATOM	10405	CB	ILE	C	902	17.614	102.405	32.381	1.00	35.77	6
ATOM	10406	CG2	ILE	C	902	18.461	103.585	31.962	1.00	36.26	6
ATOM	10407	CG1	ILE	C	902	17.681	101.365	31.266	1.00	37.30	6



ATOM	10408	CD1	ILE	C	902	17.032	100.043	31.613	1.00	40.87	6
ATOM	10409	C	ILE	C	902	18.524	102.968	34.631	1.00	35.26	6
ATOM	10410	O	ILE	C	902	17.849	104.000	34.676	1.00	35.12	8
ATOM	10411	N	SER	C	903	19.607	102.772	35.372	1.00	31.96	7
ATOM	10412	CA	SER	C	903	20.119	103.754	36.311	1.00	30.93	6
ATOM	10413	CB	SER	C	903	20.228	103.127	37.698	1.00	34.74	6
ATOM	10414	OG	SER	C	903	21.452	103.468	38.322	1.00	35.86	8
ATOM	10415	C	SER	C	903	21.491	104.161	35.820	1.00	29.29	6
ATOM	10416	O	SER	C	903	22.489	103.590	36.226	1.00	28.82	8
ATOM	10417	N	PRO	C	904	21.552	105.151	34.922	1.00	60.94	7
ATOM	10418	CD	PRO	C	904	20.412	105.862	34.321	1.00	13.87	6
ATOM	10419	CA	PRO	C	904	22.822	105.630	34.366	1.00	60.49	6
ATOM	10420	CB	PRO	C	904	22.376	106.639	33.302	1.00	14.23	6
ATOM	10421	CG	PRO	C	904	21.065	107.114	33.816	1.00	14.25	6
ATOM	10422	C	PRO	C	904	23.842	106.206	35.352	1.00	59.70	6
ATOM	10423	O	PRO	C	904	23.516	106.510	36.505	1.00	60.46	8
ATOM	10424	N	VAL	C	905	25.077	106.340	34.863	1.00	15.62	7
ATOM	10425	CA	VAL	C	905	26.218	106.848	35.622	1.00	14.36	6
ATOM	10426	CB	VAL	C	905	27.500	106.820	34.790	1.00	29.83	6
ATOM	10427	CG1	VAL	C	905	28.694	106.940	35.705	1.00	29.87	6
ATOM	10428	CG2	VAL	C	905	27.565	105.557	33.962	1.00	31.57	6
ATOM	10429	C	VAL	C	905	26.055	108.269	36.119	1.00	13.92	6
ATOM	10430	O	VAL	C	905	26.104	109.228	35.344	1.00	13.87	8
ATOM	10431	N	PHE	C	906	25.879	108.382	37.431	1.00	30.04	7
ATOM	10432	CA	PHE	C	906	25.711	109.659	38.099	1.00	30.51	6
ATOM	10433	CB	PHE	C	906	26.810	110.618	37.657	1.00	19.82	6
ATOM	10434	CG	PHE	C	906	28.186	110.161	38.018	1.00	19.64	6
ATOM	10435	CD1	PHE	C	906	29.235	110.307	37.127	1.00	18.44	6
ATOM	10436	CD2	PHE	C	906	28.445	109.597	39.266	1.00	20.87	6
ATOM	10437	CE1	PHE	C	906	30.525	109.901	37.471	1.00	18.44	6
ATOM	10438	CE2	PHE	C	906	29.742	109.186	39.618	1.00	19.51	6
ATOM	10439	CZ	PHE	C	906	30.778	109.341	38.717	1.00	18.93	6
ATOM	10440	C	PHE	C	906	24.355	110.283	37.815	1.00	32.71	6
ATOM	10441	O	PHE	C	906	24.227	111.508	37.867	1.00	32.97	8
ATOM	10442	N	ASP	C	907	23.338	109.467	37.527	1.00	29.06	7
ATOM	10443	CA	ASP	C	907	22.032	110.044	37.230	1.00	30.90	6
ATOM	10444	CB	ASP	C	907	21.959	110.455	35.759	1.00	61.65	6
ATOM	10445	CG	ASP	C	907	20.898	111.511	35.497	1.00	62.92	6
ATOM	10446	OD1	ASP	C	907	19.837	111.485	36.160	1.00	61.39	8
ATOM	10447	OD2	ASP	C	907	21.131	112.365	34.614	1.00	63.98	8
ATOM	10448	C	ASP	C	907	20.816	109.192	37.537	1.00	32.34	6
ATOM	10449	O	ASP	C	907	20.277	108.536	36.646	1.00	32.53	8
ATOM	10450	N	GLY	C	908	20.373	109.224	38.793	1.00	45.67	7
ATOM	10451	CA	GLY	C	908	19.183	108.485	39.181	1.00	45.28	6
ATOM	10452	C	GLY	C	908	19.376	107.184	39.927	1.00	44.33	6
ATOM	10453	O	GLY	C	908	20.496	106.739	40.165	1.00	44.93	8
ATOM	10454	N	ALA	C	909	18.256	106.561	40.270	1.00	13.87	7
ATOM	10455	CA	ALA	C	909	18.273	105.320	41.004	1.00	13.87	6
ATOM	10456	CB	ALA	C	909	19.234	104.359	40.380	1.00	19.25	6
ATOM	10457	C	ALA	C	909	18.725	105.684	42.396	1.00	13.87	6
ATOM	10458	O	ALA	C	909	19.777	105.228	42.844	1.00	13.87	8
ATOM	10459	N	THR	C	910	17.930	106.516	43.072	1.00	22.51	7
ATOM	10460	CA	THR	C	910	18.258	106.966	44.419	1.00	25.35	6
ATOM	10461	CB	THR	C	910	17.766	108.374	44.686	1.00	54.99	6
ATOM	10462	OG1	THR	C	910	17.878	109.145	43.488	1.00	58.09	8
ATOM	10463	CG2	THR	C	910	18.621	109.021	45.769	1.00	57.49	6

ATOM	10464	C	THR	C	910	17.705	106.089	45.507	1.00	26.11	6
ATOM	10465	O	THR	C	910	16.551	105.674	45.485	1.00	26.89	8
ATOM	10466	N	GLU	C	911	18.553	105.856	46.490	1.00	42.54	7
ATOM	10467	CA	GLU	C	911	18.234	105.012	47.615	1.00	45.45	6
ATOM	10468	CB	GLU	C	911	19.106	105.406	48.794	1.00	56.31	6
ATOM	10469	CG	GLU	C	911	19.172	104.352	49.839	1.00	62.32	6
ATOM	10470	CD	GLU	C	911	20.208	104.664	50.857	1.00	65.43	6
ATOM	10471	OE1	GLU	C	911	21.356	104.926	50.442	1.00	66.82	8
ATOM	10472	OE2	GLU	C	911	19.874	104.646	52.062	1.00	68.96	8
ATOM	10473	C	GLU	C	911	16.768	104.981	48.025	1.00	45.59	6
ATOM	10474	O	GLU	C	911	16.223	103.909	48.275	1.00	47.49	8
ATOM	10475	N	PRO	C	912	16.109	106.148	48.099	1.00	16.94	7
ATOM	10476	CD	PRO	C	912	16.627	107.502	47.853	1.00	32.60	6
ATOM	10477	CA	PRO	C	912	14.699	106.219	48.484	1.00	17.33	6
ATOM	10478	CB	PRO	C	912	14.478	107.710	48.677	1.00	32.27	6
ATOM	10479	CG	PRO	C	912	15.356	108.298	47.643	1.00	32.01	6
ATOM	10480	C	PRO	C	912	13.778	105.631	47.423	1.00	18.58	6
ATOM	10481	O	PRO	C	912	12.792	104.965	47.755	1.00	18.06	8
ATOM	10482	N	GLU	C	913	14.099	105.895	46.156	1.00	40.96	7
ATOM	10483	CA	GLU	C	913	13.328	105.373	45.035	1.00	42.81	6
ATOM	10484	CB	GLU	C	913	13.897	105.898	43.725	1.00	69.38	6
ATOM	10485	CG	GLU	C	913	13.359	107.257	43.353	1.00	74.36	6
ATOM	10486	CD	GLU	C	913	14.261	108.011	42.391	1.00	77.79	6
ATOM	10487	OE1	GLU	C	913	14.766	107.397	41.420	1.00	79.14	8
ATOM	10488	OE2	GLU	C	913	14.450	109.232	42.603	1.00	79.35	8
ATOM	10489	C	GLU	C	913	13.431	103.854	45.083	1.00	42.98	6
ATOM	10490	O	GLU	C	913	12.441	103.133	44.903	1.00	43.19	8
ATOM	10491	N	ILE	C	914	14.643	103.371	45.335	1.00	37.29	7
ATOM	10492	CA	ILE	C	914	14.879	101.940	45.443	1.00	35.51	6
ATOM	10493	CB	ILE	C	914	16.361	101.663	45.775	1.00	14.77	6
ATOM	10494	CG2	ILE	C	914	16.643	100.161	45.721	1.00	13.87	6
ATOM	10495	CG1	ILE	C	914	17.248	102.406	44.776	1.00	14.08	6
ATOM	10496	CD1	ILE	C	914	18.680	102.473	45.189	1.00	15.40	6
ATOM	10497	C	ILE	C	914	13.967	101.447	46.570	1.00	36.23	6
ATOM	10498	O	ILE	C	914	13.289	100.437	46.440	1.00	35.85	8
ATOM	10499	N	LYS	C	915	13.947	102.182	47.673	1.00	21.63	7
ATOM	10500	CA	LYS	C	915	13.097	101.833	48.788	1.00	23.86	6
ATOM	10501	CB	LYS	C	915	13.162	102.919	49.859	1.00	45.95	6
ATOM	10502	CG	LYS	C	915	14.537	103.087	50.501	1.00	45.43	6
ATOM	10503	CD	LYS	C	915	14.996	101.819	51.235	1.00	43.48	6
ATOM	10504	CE	LYS	C	915	16.163	102.067	52.227	1.00	42.64	6
ATOM	10505	NZ	LYS	C	915	17.487	102.423	51.632	1.00	40.26	7
ATOM	10506	C	LYS	C	915	11.658	101.680	48.277	1.00	26.64	6
ATOM	10507	O	LYS	C	915	11.008	100.654	48.523	1.00	26.46	8
ATOM	10508	N	GLU	C	916	11.149	102.689	47.568	1.00	71.98	7
ATOM	10509	CA	GLU	C	916	9.787	102.597	47.038	1.00	73.89	6
ATOM	10510	CB	GLU	C	916	9.456	103.776	46.114	1.00	95.83	6
ATOM	10511	CG	GLU	C	916	8.055	103.667	45.494	1.00	99.06	6
ATOM	10512	CD	GLU	C	916	7.796	104.649	44.351	1.00	101.48	6
ATOM	10513	OE1	GLU	C	916	8.606	104.700	43.395	1.00	102.44	8
ATOM	10514	OE2	GLU	C	916	6.765	105.359	44.399	1.00	103.28	8
ATOM	10515	C	GLU	C	916	9.697	101.301	46.243	1.00	74.32	6
ATOM	10516	O	GLU	C	916	8.837	100.458	46.500	1.00	74.55	8
ATOM	10517	N	LEU	C	917	10.599	101.151	45.277	1.00	76.75	7
ATOM	10518	CA	LEU	C	917	10.654	99.960	44.444	1.00	76.02	6
ATOM	10519	CB	LEU	C	917	11.857	100.059	43.497	1.00	31.71	6

ATOM	10520	CG	LEU	C	917	11.583	100.671	42.120	1.00	30.77	6
ATOM	10521	CD1	LEU	C	917	12.875	101.020	41.411	1.00	30.00	6
ATOM	10522	CD2	LEU	C	917	10.772	99.672	41.302	1.00	30.45	6
ATOM	10523	C	LEU	C	917	10.743	98.708	45.328	1.00	75.62	6
ATOM	10524	O	LEU	C	917	10.494	97.588	44.880	1.00	75.68	8
ATOM	10525	N	LEU	C	918	11.100	98.919	46.590	1.00	28.41	7
ATOM	10526	CA	LEU	C	918	11.201	97.849	47.570	1.00	28.59	6
ATOM	10527	CB	LEU	C	918	12.400	98.081	48.483	1.00	37.23	6
ATOM	10528	CG	LEU	C	918	13.752	97.539	48.051	1.00	35.84	6
ATOM	10529	CD1	LEU	C	918	14.831	98.022	49.006	1.00	36.16	6
ATOM	10530	CD2	LEU	C	918	13.676	96.032	48.045	1.00	36.60	6
ATOM	10531	C	LEU	C	918	9.918	97.819	48.404	1.00	28.80	6
ATOM	10532	O	LEU	C	918	9.526	96.772	48.940	1.00	27.28	8
ATOM	10533	N	ALA	C	919	9.279	98.976	48.541	1.00	53.35	7
ATOM	10534	CA	ALA	C	919	8.024	99.028	49.263	1.00	54.87	6
ATOM	10535	CB	ALA	C	919	7.435	100.411	49.194	1.00	26.84	6
ATOM	10536	C	ALA	C	919	7.197	98.042	48.446	1.00	56.11	6
ATOM	10537	O	ALA	C	919	6.677	97.066	48.987	1.00	56.33	8
ATOM	10538	N	GLU	C	920	7.108	98.291	47.135	1.00	51.97	7
ATOM	10539	CA	GLU	C	920	6.401	97.383	46.229	1.00	52.59	6
ATOM	10540	CB	GLU	C	920	6.403	97.892	44.780	1.00	76.15	6
ATOM	10541	CG	GLU	C	920	5.676	99.214	44.537	1.00	78.37	6
ATOM	10542	CD	GLU	C	920	5.596	99.579	43.054	1.00	80.29	6
ATOM	10543	OE1	GLU	C	920	4.929	98.841	42.299	1.00	79.99	8
ATOM	10544	OE2	GLU	C	920	6.198	100.596	42.640	1.00	80.59	8
ATOM	10545	C	GLU	C	920	7.252	96.125	46.320	1.00	51.92	6
ATOM	10546	O	GLU	C	920	8.288	96.138	46.979	1.00	51.86	8
ATOM	10547	N	ALA	C	921	6.850	95.050	45.654	1.00	69.88	7
ATOM	10548	CA	ALA	C	921	7.603	93.802	45.750	1.00	68.97	6
ATOM	10549	CB	ALA	C	921	8.953	93.935	45.064	1.00	58.25	6
ATOM	10550	C	ALA	C	921	7.776	93.554	47.248	1.00	68.54	6
ATOM	10551	O	ALA	C	921	8.758	93.961	47.864	1.00	69.84	8
ATOM	10552	N	PHE	C	922	6.770	92.914	47.821	1.00	60.62	7
ATOM	10553	CA	PHE	C	922	6.698	92.583	49.238	1.00	59.45	6
ATOM	10554	CB	PHE	C	922	7.273	93.670	50.152	1.00	33.67	6
ATOM	10555	CG	PHE	C	922	7.014	93.408	51.625	1.00	31.30	6
ATOM	10556	CD1	PHE	C	922	7.656	92.364	52.285	1.00	30.29	6
ATOM	10557	CD2	PHE	C	922	6.074	94.149	52.326	1.00	30.37	6
ATOM	10558	CE1	PHE	C	922	7.356	92.062	53.613	1.00	29.50	6
ATOM	10559	CE2	PHE	C	922	5.775	93.847	53.651	1.00	29.79	6
ATOM	10560	CZ	PHE	C	922	6.414	92.805	54.294	1.00	29.06	6
ATOM	10561	C	PHE	C	922	5.212	92.526	49.462	1.00	60.82	6
ATOM	10562	O	PHE	C	922	4.690	91.560	50.013	1.00	61.90	8
ATOM	10563	N	ASN	C	923	4.527	93.579	49.029	1.00	97.16	7
ATOM	10564	CA	ASN	C	923	3.083	93.620	49.151	1.00	97.30	6
ATOM	10565	CB	ASN	C	923	2.534	94.965	48.671	1.00	91.91	6
ATOM	10566	CG	ASN	C	923	2.884	96.109	49.618	1.00	92.86	6
ATOM	10567	OD1	ASN	C	923	2.640	96.034	50.831	1.00	93.08	8
ATOM	10568	ND2	ASN	C	923	3.453	97.175	49.069	1.00	91.46	7
ATOM	10569	C	ASN	C	923	2.631	92.488	48.251	1.00	97.23	6
ATOM	10570	O	ASN	C	923	1.440	92.234	48.081	1.00	98.02	8
ATOM	10571	N	LEU	C	924	3.630	91.817	47.683	1.00	47.77	7
ATOM	10572	CA	LEU	C	924	3.447	90.677	46.809	1.00	46.89	6
ATOM	10573	CB	LEU	C	924	3.761	91.044	45.361	1.00	40.81	6
ATOM	10574	CG	LEU	C	924	4.750	92.156	45.053	1.00	39.42	6
ATOM	10575	CD1	LEU	C	924	4.741	92.348	43.557	1.00	40.38	6

ATOM	10576	CD2	LEU	C	924	4.358	93.454	45.718	1.00	38.41	6
ATOM	10577	C	LEU	C	924	4.357	89.567	47.293	1.00	47.08	6
ATOM	10578	O	LEU	C	924	3.906	88.442	47.496	1.00	46.92	8
ATOM	10579	N	TYR	C	925	5.637	89.877	47.489	1.00	48.13	7
ATOM	10580	CA	TYR	C	925	6.569	88.867	47.994	1.00	48.95	6
ATOM	10581	CB	TYR	C	925	7.946	89.476	48.305	1.00	49.10	6
ATOM	10582	CG	TYR	C	925	8.714	88.723	49.374	1.00	49.73	6
ATOM	10583	CD1	TYR	C	925	8.926	87.343	49.275	1.00	50.22	6
ATOM	10584	CE1	TYR	C	925	9.569	86.624	50.300	1.00	50.15	6
ATOM	10585	CD2	TYR	C	925	9.171	89.372	50.517	1.00	50.11	6
ATOM	10586	CE2	TYR	C	925	9.813	88.665	51.545	1.00	50.38	6
ATOM	10587	CZ	TYR	C	925	10.004	87.291	51.432	1.00	50.35	6
ATOM	10588	OH	TYR	C	925	10.588	86.589	52.462	1.00	49.43	8
ATOM	10589	C	TYR	C	925	5.945	88.327	49.269	1.00	49.87	6
ATOM	10590	O	TYR	C	925	5.804	87.121	49.442	1.00	49.62	8
ATOM	10591	N	PHE	C	926	5.571	89.243	50.154	1.00	70.22	7
ATOM	10592	CA	PHE	C	926	4.935	88.883	51.407	1.00	73.05	6
ATOM	10593	CB	PHE	C	926	5.209	89.934	52.482	1.00	49.65	6
ATOM	10594	CG	PHE	C	926	4.766	89.513	53.844	1.00	49.63	6
ATOM	10595	CD1	PHE	C	926	5.479	88.542	54.555	1.00	49.72	6
ATOM	10596	CD2	PHE	C	926	3.604	90.031	54.400	1.00	50.08	6
ATOM	10597	CE1	PHE	C	926	5.035	88.090	55.806	1.00	50.09	6
ATOM	10598	CE2	PHE	C	926	3.149	89.587	55.649	1.00	50.98	6
ATOM	10599	CZ	PHE	C	926	3.867	88.613	56.354	1.00	50.94	6
ATOM	10600	C	PHE	C	926	3.435	88.805	51.157	1.00	75.68	6
ATOM	10601	O	PHE	C	926	2.691	88.224	51.950	1.00	76.44	8
ATOM	10602	N	GLY	C	927	2.997	89.400	50.050	1.00	51.62	7
ATOM	10603	CA	GLY	C	927	1.585	89.386	49.712	1.00	53.05	6
ATOM	10604	C	GLY	C	927	1.163	87.959	49.467	1.00	54.38	6
ATOM	10605	O	GLY	C	927	0.029	87.571	49.738	1.00	53.67	8
ATOM	10606	N	LYS	C	928	2.105	87.174	48.963	1.00	59.07	7
ATOM	10607	CA	LYS	C	928	1.858	85.777	48.666	1.00	62.02	6
ATOM	10608	CB	LYS	C	928	3.032	85.207	47.865	1.00	171.68	6
ATOM	10609	CG	LYS	C	928	3.184	85.856	46.498	1.00	173.79	6
ATOM	10610	CD	LYS	C	928	4.420	85.380	45.759	1.00	175.33	6
ATOM	10611	CE	LYS	C	928	4.557	86.110	44.428	1.00	175.69	6
ATOM	10612	NZ	LYS	C	928	5.766	85.701	43.661	1.00	176.89	7
ATOM	10613	C	LYS	C	928	1.594	84.932	49.915	1.00	62.87	6
ATOM	10614	O	LYS	C	928	0.695	84.093	49.905	1.00	62.54	8
ATOM	10615	N	ARG	C	929	2.361	85.139	50.983	1.00	75.41	7
ATOM	10616	CA	ARG	C	929	2.149	84.365	52.204	1.00	77.55	6
ATOM	10617	CB	ARG	C	929	2.950	84.936	53.367	1.00	98.13	6
ATOM	10618	CG	ARG	C	929	4.445	84.810	53.252	1.00	100.19	6
ATOM	10619	CD	ARG	C	929	5.047	85.113	54.600	1.00	101.93	6
ATOM	10620	NE	ARG	C	929	6.473	85.380	54.531	1.00	104.27	7
ATOM	10621	CZ	ARG	C	929	7.211	85.688	55.589	1.00	105.59	6
ATOM	10622	NH1	ARG	C	929	6.645	85.762	56.786	1.00	106.10	7
ATOM	10623	NH2	ARG	C	929	8.508	85.927	55.451	1.00	106.46	7
ATOM	10624	C	ARG	C	929	0.679	84.422	52.577	1.00	78.07	6
ATOM	10625	O	ARG	C	929	0.012	83.402	52.746	1.00	77.62	8
ATOM	10626	N	GLN	C	930	0.182	85.639	52.713	1.00	121.34	7
ATOM	10627	CA	GLN	C	930	-1.207	85.851	53.055	1.00	122.36	6
ATOM	10628	CB	GLN	C	930	-1.381	87.300	53.500	1.00	77.50	6
ATOM	10629	CG	GLN	C	930	-0.426	87.669	54.638	1.00	78.01	6
ATOM	10630	CD	GLN	C	930	-0.246	89.163	54.808	1.00	77.89	6
ATOM	10631	OE1	GLN	C	930	0.218	89.850	53.899	1.00	78.54	8

ATOM	10632	NE2	GLN	C	930	-0.608	89.674	55.979	1.00	77.85	7
ATOM	10633	C	GLN	C	930	-2.028	85.528	51.808	1.00	122.93	6
ATOM	10634	O	GLN	C	930	-3.102	86.080	51.578	1.00	124.12	8
ATOM	10635	N	GLY	C	931	-1.483	84.621	51.005	1.00	137.15	7
ATOM	10636	CA	GLY	C	931	-2.126	84.178	49.784	1.00	136.42	6
ATOM	10637	C	GLY	C	931	-2.051	82.665	49.784	1.00	136.00	6
ATOM	10638	O	GLY	C	931	-3.078	81.992	49.850	1.00	136.17	8
ATOM	10639	N	GLU	C	932	-0.835	82.126	49.717	1.00	96.18	7
ATOM	10640	CA	GLU	C	932	-0.652	80.679	49.748	1.00	94.52	6
ATOM	10641	CB	GLU	C	932	0.832	80.308	49.755	1.00	76.46	6
ATOM	10642	CG	GLU	C	932	1.612	80.799	48.551	1.00	76.62	6
ATOM	10643	CD	GLU	C	932	3.082	80.389	48.588	1.00	76.70	6
ATOM	10644	OE1	GLU	C	932	3.776	80.708	49.581	1.00	76.25	8
ATOM	10645	OE2	GLU	C	932	3.543	79.752	47.618	1.00	76.53	8
ATOM	10646	C	GLU	C	932	-1.292	80.203	51.043	1.00	93.61	6
ATOM	10647	O	GLU	C	932	-1.656	79.035	51.177	1.00	93.06	8
ATOM	10648	N	GLY	C	933	-1.421	81.131	51.990	1.00	182.25	7
ATOM	10649	CA	GLY	C	933	-2.022	80.828	53.275	1.00	180.72	6
ATOM	10650	C	GLY	C	933	-1.011	80.659	54.392	1.00	179.07	6
ATOM	10651	O	GLY	C	933	-1.071	79.679	55.136	1.00	179.86	8
ATOM	10652	N	PHE	C	934	-0.082	81.605	54.518	1.00	81.73	7
ATOM	10653	CA	PHE	C	934	0.939	81.529	55.563	1.00	78.85	6
ATOM	10654	CB	PHE	C	934	2.186	80.805	55.044	1.00	70.78	6
ATOM	10655	CG	PHE	C	934	1.906	79.438	54.477	1.00	69.68	6
ATOM	10656	CD1	PHE	C	934	1.658	79.268	53.119	1.00	69.14	6
ATOM	10657	CD2	PHE	C	934	1.875	78.319	55.306	1.00	69.73	6
ATOM	10658	CE1	PHE	C	934	1.385	78.006	52.596	1.00	68.85	6
ATOM	10659	CE2	PHE	C	934	1.603	77.052	54.790	1.00	69.66	6
ATOM	10660	CZ	PHE	C	934	1.358	76.898	53.432	1.00	68.78	6
ATOM	10661	C	PHE	C	934	1.344	82.894	56.115	1.00	77.20	6
ATOM	10662	O	PHE	C	934	0.860	83.933	55.658	1.00	77.60	8
ATOM	10663	N	GLY	C	935	2.239	82.877	57.102	1.00	94.36	7
ATOM	10664	CA	GLY	C	935	2.701	84.116	57.706	1.00	91.73	6
ATOM	10665	C	GLY	C	935	3.684	83.935	58.851	1.00	89.40	6
ATOM	10666	O	GLY	C	935	3.509	83.044	59.683	1.00	89.89	8
ATOM	10667	N	VAL	C	936	4.709	84.789	58.883	1.00	34.92	7
ATOM	10668	CA	VAL	C	936	5.756	84.769	59.904	1.00	31.78	6
ATOM	10669	CB	VAL	C	936	5.643	85.989	60.820	1.00	33.96	6
ATOM	10670	CG1	VAL	C	936	6.439	85.766	62.093	1.00	34.87	6
ATOM	10671	CG2	VAL	C	936	6.152	87.218	60.098	1.00	34.76	

ATOM	10688	NZ	LYS	C	938	6.106	79.166	68.954	1.00	81.04	7
ATOM	10689	C	LYS	C	938	10.112	81.196	64.660	1.00	53.10	6
ATOM	10690	O	LYS	C	938	10.799	81.510	65.637	1.00	53.64	8
ATOM	10691	N	ARG	C	939	10.595	81.186	63.419	1.00	54.14	7
ATOM	10692	CA	ARG	C	939	11.984	81.546	63.135	1.00	54.30	6
ATOM	10693	CB	ARG	C	939	12.458	80.847	61.873	1.00	51.97	6
ATOM	10694	CG	ARG	C	939	12.390	79.357	61.949	1.00	53.03	6
ATOM	10695	CD	ARG	C	939	11.810	78.850	60.674	1.00	54.13	6
ATOM	10696	NE	ARG	C	939	12.529	77.699	60.181	1.00	54.99	7
ATOM	10697	CZ	ARG	C	939	12.297	77.165	58.996	1.00	57.20	6
ATOM	10698	NH1	ARG	C	939	11.370	77.695	58.213	1.00	57.62	7
ATOM	10699	NH2	ARG	C	939	12.983	76.110	58.596	1.00	59.96	7
ATOM	10700	C	ARG	C	939	12.118	83.054	62.941	1.00	54.06	6
ATOM	10701	O	ARG	C	939	12.950	83.706	63.576	1.00	55.43	8
ATOM	10702	N	GLU	C	940	11.305	83.596	62.042	1.00	20.90	7
ATOM	10703	CA	GLU	C	940	11.314	85.022	61.775	1.00	20.56	6
ATOM	10704	CB	GLU	C	940	10.301	85.363	60.676	1.00	46.34	6
ATOM	10705	CG	GLU	C	940	10.352	84.402	59.500	1.00	44.16	6
ATOM	10706	CD	GLU	C	940	9.423	84.787	58.372	1.00	41.54	6
ATOM	10707	OE1	GLU	C	940	9.785	85.691	57.599	1.00	41.51	8
ATOM	10708	OE2	GLU	C	940	8.335	84.186	58.258	1.00	40.41	8
ATOM	10709	C	GLU	C	940	10.950	85.745	63.076	1.00	21.44	6
ATOM	10710	O	GLU	C	940	11.182	86.942	63.226	1.00	20.60	8
ATOM	10711	N	LYS	C	941	10.357	85.027	64.021	1.00	85.59	7
ATOM	10712	CA	LYS	C	941	10.042	85.669	65.282	1.00	87.93	6
ATOM	10713	CB	LYS	C	941	9.091	84.824	66.129	1.00	88.47	6
ATOM	10714	CG	LYS	C	941	7.633	85.103	65.821	1.00	89.73	6
ATOM	10715	CD	LYS	C	941	6.770	85.026	67.065	1.00	91.30	6
ATOM	10716	CE	LYS	C	941	5.392	85.615	66.795	1.00	92.39	6
ATOM	10717	NZ	LYS	C	941	4.610	85.825	68.048	1.00	94.10	7
ATOM	10718	C	LYS	C	941	11.368	85.836	65.988	1.00	88.95	6
ATOM	10719	O	LYS	C	941	11.709	86.940	66.410	1.00	90.48	8
ATOM	10720	N	GLU	C	942	12.123	84.743	66.097	1.00	54.45	7
ATOM	10721	CA	GLU	C	942	13.425	84.797	66.742	1.00	53.66	6
ATOM	10722	CB	GLU	C	942	14.197	83.497	66.536	1.00	113.49	6
ATOM	10723	CG	GLU	C	942	13.642	82.318	67.296	1.00	117.32	6
ATOM	10724	CD	GLU	C	942	14.718	81.323	67.680	1.00	119.34	6
ATOM	10725	OE1	GLU	C	942	15.474	80.878	66.790	1.00	120.23	8
ATOM	10726	OE2	GLU	C	942	14.808	80.987	68.878	1.00	120.12	8
ATOM	10727	C	GLU	C	942	14.229	85.942	66.154	1.00	52.80	6
ATOM	10728	O	GLU	C	942	14.663	86.846	66.871	1.00	53.14	8
ATOM	10729	N	VAL	C	943	14.416	85.903	64.839	1.00	65.20	7
ATOM	10730	CA	VAL	C	943	15.179	86.935	64.162	1.00	63.66	6
ATOM	10731	CB	VAL	C	943	15.104	86.765	62.640	1.00	61.57	6
ATOM	10732	CG1	VAL	C	943	15.758	87.945	61.941	1.00	61.54	6
ATOM	10733	CG2	VAL	C	943	15.810	85.478	62.252	1.00	61.38	6
ATOM	10734	C	VAL	C	943	14.724	88.328	64.567	1.00	62.96	6
ATOM	10735	O	VAL	C	943	15.293	88.893	65.480	1.00	63.98	8
ATOM	10736	N	LEU	C	944	13.708	88.873	63.906	1.00	13.88	7
ATOM	10737	CA	LEU	C	944	13.207	90.211	64.224	1.00	13.87	6
ATOM	10738	CB	LEU	C	944	11.698	90.287	64.018	1.00	46.25	6
ATOM	10739	CG	LEU	C	944	11.102	90.011	62.642	1.00	47.00	6
ATOM	10740	CD1	LEU	C	944	9.596	89.914	62.772	1.00	48.47	6
ATOM	10741	CD2	LEU	C	944	11.493	91.105	61.674	1.00	47.73	6
ATOM	10742	C	LEU	C	944	13.501	90.618	65.657	1.00	13.87	6
ATOM	10743	O	LEU	C	944	14.149	91.625	65.909	1.00	13.87	8

ATOM	10744	N	ALA	C	945	13.018	89.825	66.600	1.00	31.01	7
ATOM	10745	CA	ALA	C	945	13.224	90.105	68.012	1.00	31.66	6
ATOM	10746	CB	ALA	C	945	12.505	89.050	68.857	1.00	40.26	6
ATOM	10747	C	ALA	C	945	14.703	90.139	68.371	1.00	32.39	6
ATOM	10748	O	ALA	C	945	15.067	90.102	69.542	1.00	31.76	8
ATOM	10749	N	ARG	C	946	15.550	90.209	67.356	1.00	27.49	7
ATOM	10750	CA	ARG	C	946	17.002	90.232	67.528	1.00	29.39	6
ATOM	10751	CB	ARG	C	946	17.605	88.875	67.147	1.00	67.26	6
ATOM	10752	CG	ARG	C	946	19.133	88.814	67.154	1.00	69.40	6
ATOM	10753	CD	ARG	C	946	19.618	87.450	66.666	1.00	70.98	6
ATOM	10754	NE	ARG	C	946	21.073	87.322	66.608	1.00	73.54	7
ATOM	10755	CZ	ARG	C	946	21.887	88.201	66.030	1.00	75.59	6
ATOM	10756	NH1	ARG	C	946	21.398	89.292	65.464	1.00	78.24	7
ATOM	10757	NH2	ARG	C	946	23.193	87.972	65.986	1.00	76.01	7
ATOM	10758	C	ARG	C	946	17.558	91.298	66.613	1.00	30.19	6
ATOM	10759	O	ARG	C	946	18.556	91.915	66.914	1.00	30.17	8
ATOM	10760	N	ALA	C	947	16.903	91.491	65.480	1.00	46.59	7
ATOM	10761	CA	ALA	C	947	17.327	92.494	64.533	1.00	49.44	6
ATOM	10762	CB	ALA	C	947	16.593	92.324	63.218	1.00	95.40	6
ATOM	10763	C	ALA	C	947	16.963	93.811	65.167	1.00	51.92	6
ATOM	10764	O	ALA	C	947	17.796	94.709	65.275	1.00	53.44	8
ATOM	10765	N	GLU	C	948	15.714	93.922	65.608	1.00	60.56	7
ATOM	10766	CA	GLU	C	948	15.259	95.158	66.241	1.00	61.87	6
ATOM	10767	CB	GLU	C	948	13.788	95.059	66.681	1.00	79.09	6
ATOM	10768	CG	GLU	C	948	13.535	94.385	68.026	1.00	79.19	6
ATOM	10769	CD	GLU	C	948	12.111	94.612	68.520	1.00	79.55	6
ATOM	10770	OE1	GLU	C	948	11.166	94.043	67.933	1.00	78.09	8
ATOM	10771	OE2	GLU	C	948	11.939	95.375	69.492	1.00	80.91	8
ATOM	10772	C	GLU	C	948	16.152	95.437	67.441	1.00	62.71	6
ATOM	10773	O	GLU	C	948	16.448	96.593	67.750	1.00	63.17	8
ATOM	10774	N	LYS	C	949	16.582	94.370	68.111	1.00	43.00	7
ATOM	10775	CA	LYS	C	949	17.469	94.516	69.250	1.00	44.20	6
ATOM	10776	CB	LYS	C	949	17.738	93.164	69.915	1.00	150.66	6
ATOM	10777	CG	LYS	C	949	16.517	92.557	70.571	1.00	153.51	6
ATOM	10778	CD	LYS	C	949	16.856	91.962	71.925	1.00	155.35	6
ATOM	10779	CE	LYS	C	949	15.590	91.583	72.675	1.00	157.45	6
ATOM	10780	NZ	LYS	C	949	15.878	91.193	74.081	1.00	158.39	7
ATOM	10781	C	LYS	C	949	18.763	95.109	68.724	1.00	44.37	6
ATOM	10782	O	LYS	C	949	19.415	95.884	69.404	1.00	45.20	8
ATOM	10783	N	LEU	C	950	19.134	94.737	67.503	1.00	48.12	7
ATOM	10784	CA	LEU	C	950	20.341	95.261	66.889	1.00	48.09	6
ATOM	10785	CB	LEU	C	950	20.821	94.377	65.734	1.00	62.51	6
ATOM	10786	CG	LEU	C	950	21.093	92.870	65.817	1.00	64.28	6
ATOM	10787	CD1	LEU	C	950	21.011	92.297	64.415	1.00	64.42	6
ATOM	10788	CD2	LEU	C	950	22.451	92.568	66.436	1.00	64.51	6
ATOM	10789	C	LEU	C	950	19.855	96.554	66.304	1.00	47.97	6
ATOM	10790	O	LEU	C	950	20.254	96.917	65.224	1.00	49.44	8
ATOM	10791	N	GLY	C	951	18.948	97.230	66.994	1.00	44.24	7
ATOM	10792	CA	GLY	C	951	18.428	98.490	66.486	1.00	44.50	6
ATOM	10793	C	GLY	C	951	18.345	98.522	64.973	1.00	44.20	6
ATOM	10794	O	GLY	C	951	18.700	99.498	64.316	1.00	45.36	8
ATOM	10795	N	LEU	C	952	17.860	97.433	64.412	1.00	70.80	7
ATOM	10796	CA	LEU	C	952	17.760	97.328	62.976	1.00	70.81	6
ATOM	10797	CB	LEU	C	952	18.164	95.925	62.559	1.00	36.46	6
ATOM	10798	CG	LEU	C	952	18.891	95.807	61.242	1.00	36.82	6
ATOM	10799	CD1	LEU	C	952	20.214	96.528	61.332	1.00	37.99	6

ATOM	10800	CD2	LEU	C	952	19.089	94.354	60.949	1.00	36.94	6
ATOM	10801	C	LEU	C	952	16.336	97.600	62.535	1.00	70.39	6
ATOM	10802	O	LEU	C	952	16.099	98.135	61.456	1.00	70.61	8
ATOM	10803	N	VAL	C	953	15.392	97.223	63.385	1.00	62.37	7
ATOM	10804	CA	VAL	C	953	13.988	97.393	63.091	1.00	62.11	6
ATOM	10805	CB	VAL	C	953	13.307	96.031	63.028	1.00	71.67	6
ATOM	10806	CG1	VAL	C	953	11.856	96.192	62.713	1.00	71.05	6
ATOM	10807	CG2	VAL	C	953	13.974	95.179	61.985	1.00	73.42	6
ATOM	10808	C	VAL	C	953	13.346	98.221	64.185	1.00	62.31	6
ATOM	10809	O	VAL	C	953	13.832	98.240	65.317	1.00	62.52	8
ATOM	10810	N	SER	C	954	12.254	98.902	63.839	1.00	75.89	7
ATOM	10811	CA	SER	C	954	11.515	99.740	64.784	1.00	76.21	6
ATOM	10812	CB	SER	C	954	10.534	100.647	64.038	1.00	121.45	6
ATOM	10813	OG	SER	C	954	11.206	101.489	63.118	1.00	122.82	8
ATOM	10814	C	SER	C	954	10.742	98.880	65.778	1.00	76.00	6
ATOM	10815	O	SER	C	954	9.750	98.238	65.422	1.00	76.67	8
ATOM	10816	N	PRO	C	955	11.181	98.867	67.046	1.00	47.70	7
ATOM	10817	CD	PRO	C	955	12.156	99.785	67.661	1.00	36.08	6
ATOM	10818	CA	PRO	C	955	10.509	98.069	68.070	1.00	47.53	6
ATOM	10819	CB	PRO	C	955	11.396	98.275	69.285	1.00	35.83	6
ATOM	10820	CG	PRO	C	955	11.806	99.689	69.128	1.00	36.13	6
ATOM	10821	C	PRO	C	955	9.131	98.648	68.247	1.00	48.20	6
ATOM	10822	O	PRO	C	955	8.917	99.813	67.942	1.00	48.98	8
ATOM	10823	N	GLY	C	956	8.192	97.852	68.720	1.00	86.50	7
ATOM	10824	CA	GLY	C	956	6.860	98.386	68.889	1.00	87.54	6
ATOM	10825	C	GLY	C	956	5.995	98.058	67.694	1.00	87.54	6
ATOM	10826	O	GLY	C	956	4.778	97.956	67.818	1.00	88.81	8
ATOM	10827	N	LYS	C	957	6.604	97.914	66.525	1.00	49.31	7
ATOM	10828	CA	LYS	C	957	5.821	97.554	65.352	1.00	49.18	6
ATOM	10829	CB	LYS	C	957	6.596	97.823	64.057	1.00	111.66	6
ATOM	10830	CG	LYS	C	957	6.761	99.307	63.767	1.00	114.51	6
ATOM	10831	CD	LYS	C	957	7.102	99.596	62.310	1.00	115.70	6
ATOM	10832	CE	LYS	C	957	7.133	101.105	62.052	1.00	116.34	6
ATOM	10833	NZ	LYS	C	957	7.318	101.456	60.615	1.00	116.73	7
ATOM	10834	C	LYS	C	957	5.515	96.071	65.495	1.00	48.39	6
ATOM	10835	O	LYS	C	957	6.041	95.411	66.397	1.00	48.18	8
ATOM	10836	N	SER	C	958	4.662	95.548	64.624	1.00	49.36	7
ATOM	10837	CA	SER	C	958	4.292	94.140	64.682	1.00	48.83	6
ATOM	10838	CB	SER	C	958	3.021	93.918	63.894	1.00	39.20	6
ATOM	10839	OG	SER	C	958	3.321	93.957	62.515	1.00	39.36	8
ATOM	10840	C	SER	C	958	5.388	93.311	64.047	1.00	47.48	6
ATOM	10841	O	SER	C	958	6.341	93.854	63.509	1.00	48.45	8
ATOM	10842	N	PRO	C	959	5.278	91.978	64.099	1.00	33.17	7
ATOM	10843	CD	PRO	C	959	4.193	91.077	64.519	1.00	60.72	6
ATOM	10844	CA	PRO	C	959	6.351	91.224	63.460	1.00	32.55	6
ATOM	10845	CB	PRO	C	959	5.967	89.785	63.756	1.00	60.49	6
ATOM	10846	CG	PRO	C	959	4.470	89.844	63.691	1.00	60.58	6
ATOM	10847	C	PRO	C	959	6.273	91.549	61.969	1.00	32.42	6
ATOM	10848	O	PRO	C	959	7.193	92.108	61.382	1.00	33.33	8
ATOM	10849	N	GLU	C	960	5.142	91.211	61.371	1.00	28.89	7
ATOM	10850	CA	GLU	C	960	4.928	91.476	59.967	1.00	28.90	6
ATOM	10851	CB	GLU	C	960	3.441	91.334	59.651	1.00	76.30	6
ATOM	10852	CG	GLU	C	960	3.049	91.816	58.276	1.00	80.08	6
ATOM	10853	CD	GLU	C	960	1.625	91.448	57.930	1.00	82.04	6
ATOM	10854	OE1	GLU	C	960	1.090	91.992	56.939	1.00	83.71	8
ATOM	10855	OE2	GLU	C	960	1.042	90.609	58.649	1.00	83.11	8



ATOM	10856	C	GLU	C	960	5.432	92.859	59.558	1.00	27.63	6
ATOM	10857	O	GLU	C	960	6.114	92.999	58.551	1.00	27.27	8
ATOM	10858	N	GLU	C	961	5.098	93.880	60.338	1.00	43.98	7
ATOM	10859	CA	GLU	C	961	5.534	95.246	60.032	1.00	43.39	6
ATOM	10860	CB	GLU	C	961	4.912	96.257	61.009	1.00	128.06	6
ATOM	10861	CG	GLU	C	961	3.405	96.441	60.885	1.00	131.38	6
ATOM	10862	CD	GLU	C	961	2.877	97.558	61.773	1.00	132.41	6
ATOM	10863	OE1	GLU	C	961	3.203	98.736	61.515	1.00	132.88	8
ATOM	10864	OE2	GLU	C	961	2.136	97.261	62.732	1.00	132.88	8
ATOM	10865	C	GLU	C	961	7.051	95.391	60.088	1.00	41.36	6
ATOM	10866	O	GLU	C	961	7.615	96.258	59.422	1.00	40.70	8
ATOM	10867	N	GLN	C	962	7.697	94.547	60.892	1.00	54.22	7
ATOM	10868	CA	GLN	C	962	9.148	94.570	61.057	1.00	52.66	6
ATOM	10869	CB	GLN	C	962	9.525	93.854	62.358	1.00	76.65	6
ATOM	10870	CG	GLN	C	962	8.944	94.523	63.605	1.00	77.86	6
ATOM	10871	CD	GLN	C	962	9.128	93.703	64.870	1.00	79.19	6
ATOM	10872	OE1	GLN	C	962	10.219	93.645	65.436	1.00	79.81	8
ATOM	10873	NE2	GLN	C	962	8.056	93.055	65.315	1.00	79.30	7
ATOM	10874	C	GLN	C	962	9.840	93.922	59.859	1.00	51.03	6
ATOM	10875	O	GLN	C	962	11.014	94.180	59.572	1.00	50.46	8
ATOM	10876	N	LEU	C	963	9.095	93.078	59.157	1.00	50.36	7
ATOM	10877	CA	LEU	C	963	9.622	92.421	57.980	1.00	47.74	6
ATOM	10878	CB	LEU	C	963	8.699	91.281	57.533	1.00	29.07	6
ATOM	10879	CG	LEU	C	963	9.082	89.853	57.947	1.00	27.38	6
ATOM	10880	CD1	LEU	C	963	10.346	89.418	57.215	1.00	27.54	6
ATOM	10881	CD2	LEU	C	963	9.284	89.793	59.437	1.00	25.57	6
ATOM	10882	C	LEU	C	963	9.779	93.453	56.872	1.00	46.95	6
ATOM	10883	O	LEU	C	963	10.871	93.603	56.344	1.00	47.63	8
ATOM	10884	N	LYS	C	964	8.712	94.176	56.528	1.00	53.49	7
ATOM	10885	CA	LYS	C	964	8.823	95.183	55.469	1.00	52.34	6
ATOM	10886	CB	LYS	C	964	7.543	95.973	55.284	1.00	35.19	6
ATOM	10887	CG	LYS	C	964	7.530	96.706	53.961	1.00	34.10	6
ATOM	10888	CD	LYS	C	964	6.712	97.960	54.027	1.00	34.27	6
ATOM	10889	CE	LYS	C	964	5.797	98.098	52.817	1.00	34.44	6
ATOM	10890	NZ	LYS	C	964	4.535	97.281	52.888	1.00	32.98	7
ATOM	10891	C	LYS	C	964	9.911	96.161	55.840	1.00	52.66	6
ATOM	10892	O	LYS	C	964	10.628	96.682	54.987	1.00	52.76	8
ATOM	10893	N	GLU	C	965	10.013	96.431	57.129	1.00	54.32	7
ATOM	10894	CA	GLU	C	965	11.044	97.320	57.599	1.00	54.17	6
ATOM	10895	CB	GLU	C	965	10.964	97.413	59.126			

ATOM	10912	CB	PHE	C	967	11.735	93.705	53.178	1.00	27.21	6
ATOM	10913	CG	PHE	C	967	11.721	93.011	51.815	1.00	21.93	6
ATOM	10914	CD1	PHE	C	967	12.201	91.708	51.664	1.00	19.84	6
ATOM	10915	CD2	PHE	C	967	11.231	93.656	50.683	1.00	19.36	6
ATOM	10916	CE1	PHE	C	967	12.188	91.065	50.406	1.00	17.42	6
ATOM	10917	CE2	PHE	C	967	11.225	93.007	49.432	1.00	17.33	6
ATOM	10918	CZ	PHE	C	967	11.703	91.714	49.302	1.00	14.58	6
ATOM	10919	C	PHE	C	967	13.476	95.399	52.614	1.00	61.43	6
ATOM	10920	O	PHE	C	967	13.977	95.129	51.528	1.00	62.22	8
ATOM	10921	N	ASP	C	968	13.200	96.646	52.979	1.00	48.15	7
ATOM	10922	CA	ASP	C	968	13.536	97.769	52.101	1.00	50.92	6
ATOM	10923	CB	ASP	C	968	12.656	98.972	52.406	1.00	71.89	6
ATOM	10924	CG	ASP	C	968	11.206	98.690	52.154	1.00	73.56	6
ATOM	10925	OD1	ASP	C	968	10.783	98.696	50.979	1.00	73.95	8
ATOM	10926	OD2	ASP	C	968	10.485	98.443	53.137	1.00	75.60	8
ATOM	10927	C	ASP	C	968	14.982	98.113	52.372	1.00	52.13	6
ATOM	10928	O	ASP	C	968	15.369	99.275	52.420	1.00	52.55	8
ATOM	10929	N	LEU	C	969	15.775	97.066	52.549	1.00	45.64	7
ATOM	10930	CA	LEU	C	969	17.186	97.185	52.853	1.00	48.17	6
ATOM	10931	CB	LEU	C	969	17.338	97.756	54.265	1.00	83.58	6
ATOM	10932	CG	LEU	C	969	18.722	97.909	54.885	1.00	86.40	6
ATOM	10933	CD1	LEU	C	969	19.554	98.799	53.988	1.00	86.57	6
ATOM	10934	CD2	LEU	C	969	18.604	98.481	56.301	1.00	86.42	6
ATOM	10935	C	LEU	C	969	17.725	95.762	52.786	1.00	49.26	6
ATOM	10936	O	LEU	C	969	17.904	95.218	51.701	1.00	50.41	8
ATOM	10937	N	GLY	C	970	17.943	95.159	53.953	1.00	138.99	7
ATOM	10938	CA	GLY	C	970	18.459	93.803	54.027	1.00	139.96	6
ATOM	10939	C	GLY	C	970	17.603	92.776	53.314	1.00	141.08	6
ATOM	10940	O	GLY	C	970	17.399	92.865	52.104	1.00	142.08	8
ATOM	10941	N	ALA	C	971	17.108	91.791	54.058	1.00	39.12	7
ATOM	10942	CA	ALA	C	971	16.278	90.750	53.465	1.00	39.29	6
ATOM	10943	CB	ALA	C	971	17.041	90.047	52.347	1.00	136.93	6
ATOM	10944	C	ALA	C	971	15.788	89.727	54.473	1.00	39.12	6
ATOM	10945	O	ALA	C	971	16.510	89.333	55.388	1.00	38.04	8
ATOM	10946	N	VAL	C	972	14.551	89.287	54.269	1.00	89.84	7
ATOM	10947	CA	VAL	C	972	13.889	88.321	55.145	1.00	90.03	6
ATOM	10948	CB	VAL	C	972	12.694	87.637	54.415	1.00	120.54	6
ATOM	10949	CG1	VAL	C	972	12.163	86.465	55.235	1.00	121.75	6
ATOM	10950	CG2	VAL	C	972	11.580	88.651	54.198	1.00	120.73	6
ATOM	10951	C	VAL	C	972	14.776	87.242	55.751	1.00	88.80	6
ATOM	10952	O	VAL	C	972	15.556	86.602	55.054	1.00	89.74	8
ATOM	10953	N	VAL	C	973	14.624	87.074	57.064	1.00	44.14	7
ATOM	10954	CA	VAL	C	973	15.336	86.095	57.867	1.00	42.44	6
ATOM	10955	CB	VAL	C	973	14.360	85.040	58.409	1.00	117.04	6
ATOM	10956	CG1	VAL	C	973	15.125	83.926	59.105	1.00	118.69	6
ATOM	10957	CG2	VAL	C	973	13.382	85.691	59.363	1.00	117.10	6
ATOM	10958	C	VAL	C	973	16.472	85.380	57.162	1.00	40.58	6
ATOM	10959	O	VAL	C	973	17.628	85.511	57.568	1.00	41.57	8
ATOM	10960	N	LEU	C	974	16.132	84.611	56.128	1.00	35.09	7
ATOM	10961	CA	LEU	C	974	17.099	83.863	55.316	1.00	33.19	6
ATOM	10962	CB	LEU	C	974	18.260	84.739	54.844	1.00	46.09	6
ATOM	10963	CG	LEU	C	974	19.219	83.956	53.951	1.00	46.48	6
ATOM	10964	CD1	LEU	C	974	18.463	83.464	52.734	1.00	45.62	6
ATOM	10965	CD2	LEU	C	974	20.377	84.821	53.546	1.00	47.11	6
ATOM	10966	C	LEU	C	974	17.677	82.652	56.000	1.00	32.57	6
ATOM	10967	O	LEU	C	974	18.799	82.667	56.516	1.00	32.45	8

ATOM	10968	N	TYR	C	975	16.890	81.592	55.965	1.00	70.40	7
ATOM	10969	CA	TYR	C	975	17.238	80.315	56.548	1.00	68.80	6
ATOM	10970	CB	TYR	C	975	16.149	79.325	56.198	1.00	27.41	6
ATOM	10971	CG	TYR	C	975	14.769	79.820	56.532	1.00	25.12	6
ATOM	10972	CD1	TYR	C	975	13.834	80.059	55.538	1.00	24.63	6
ATOM	10973	CE1	TYR	C	975	12.547	80.421	55.854	1.00	22.23	6
ATOM	10974	CD2	TYR	C	975	14.378	79.974	57.852	1.00	23.45	6
ATOM	10975	CE2	TYR	C	975	13.101	80.338	58.179	1.00	21.24	6
ATOM	10976	CZ	TYR	C	975	12.188	80.550	57.183	1.00	21.50	6
ATOM	10977	OH	TYR	C	975	10.893	80.819	57.539	1.00	22.82	8
ATOM	10978	C	TYR	C	975	18.566	79.796	56.036	1.00	69.49	6
ATOM	10979	O	TYR	C	975	19.305	80.501	55.352	1.00	70.73	8
ATOM	10980	N	ASP	C	976	18.854	78.546	56.374	1.00	19.13	7
ATOM	10981	CA	ASP	C	976	20.084	77.886	55.955	1.00	19.58	6
ATOM	10982	CB	ASP	C	976	21.166	78.029	57.039	1.00	77.17	6
ATOM	10983	CG	ASP	C	976	22.472	77.321	56.680	1.00	79.95	6
ATOM	10984	OD1	ASP	C	976	22.873	77.346	55.495	1.00	82.04	8
ATOM	10985	OD2	ASP	C	976	23.110	76.752	57.593	1.00	80.48	8
ATOM	10986	C	ASP	C	976	19.751	76.426	55.717	1.00	19.50	6
ATOM	10987	O	ASP	C	976	19.877	75.596	56.622	1.00	19.09	8
ATOM	10988	N	GLY	C	977	19.318	76.134	54.490	1.00	14.07	7
ATOM	10989	CA	GLY	C	977	18.939	74.784	54.087	1.00	14.99	6
ATOM	10990	C	GLY	C	977	19.825	73.665	54.582	1.00	16.05	6
ATOM	10991	O	GLY	C	977	19.477	72.492	54.505	1.00	13.87	8
ATOM	10992	N	ARG	C	978	20.969	74.063	55.105	1.00	40.37	7
ATOM	10993	CA	ARG	C	978	21.967	73.164	55.629	1.00	44.82	6
ATOM	10994	CB	ARG	C	978	23.320	73.874	55.566	1.00	103.56	6
ATOM	10995	CG	ARG	C	978	24.531	73.079	56.011	1.00	107.10	6
ATOM	10996	CD	ARG	C	978	25.659	74.056	56.305	1.00	109.68	6
ATOM	10997	NE	ARG	C	978	26.825	73.873	55.452	1.00	112.29	7
ATOM	10998	CZ	ARG	C	978	27.796	74.771	55.336	1.00	114.08	6
ATOM	10999	NH1	ARG	C	978	27.726	75.908	56.014	1.00	113.40	7
ATOM	11000	NH2	ARG	C	978	28.838	74.531	54.552	1.00	115.71	7
ATOM	11001	C	ARG	C	978	21.645	72.756	57.064	1.00	45.91	6
ATOM	11002	O	ARG	C	978	21.592	71.569	57.379	1.00	46.71	8
ATOM	11003	N	THR	C	979	21.428	73.743	57.929	1.00	85.10	7
ATOM	11004	CA	THR	C	979	21.145	73.486	59.340	1.00	87.17	6
ATOM	11005	CB	THR	C	979	21.722	74.600	60.241	1.00	202.64	6
ATOM	11006	OG1	THR	C	979	23.112	74.788	59.949	1.00	204.66	8
ATOM	11007	CG2	THR	C	979	21.574	74.228	61.710	1.00	203.31	6
ATOM	11008	C	THR	C	979	19.661	73.387	59.622	1.00	86.86	6
ATOM	11009	O	THR	C	979	19.244	72.777	60.603	1.00	88.03	8
ATOM	11010	N	GLY	C	980	18.862	73.991	58.757	1.00	45.86	7
ATOM	11011	CA	GLY	C	980	17.434	73.959	58.960	1.00	45.10	6
ATOM	11012	C	GLY	C	980	17.004	75.168	59.759	1.00	44.34	6
ATOM	11013	O	GLY	C	980	15.905	75.688	59.575	1.00	45.72	8
ATOM	11014	N	GLU	C	981	17.880	75.619	60.651	1.00	57.88	7
ATOM	11015	CA	GLU	C	981	17.603	76.777	61.489	1.00	56.67	6
ATOM	11016	CB	GLU	C	981	18.519	76.731	62.713	1.00	99.07	6
ATOM	11017	CG	GLU	C	981	18.151	75.600	63.676	1.00	105.10	6
ATOM	11018	CD	GLU	C	981	19.305	74.649	63.981	1.00	109.31	6
ATOM	11019	OE1	GLU	C	981	20.321	75.095	64.560	1.00	112.69	8
ATOM	11020	OE2	GLU	C	981	19.192	73.448	63.649	1.00	110.76	8
ATOM	11021	C	GLU	C	981	17.778	78.079	60.697	1.00	54.05	6
ATOM	11022	O	GLU	C	981	17.895	78.055	59.470	1.00	55.73	8
ATOM	11023	N	PRO	C	982	17.749	79.236	61.377	1.00	32.50	7

ATOM	11024	CD	PRO	C	982	17.006	79.485	62.627	1.00	44.67	6
ATOM	11025	CA	PRO	C	982	17.918	80.492	60.636	1.00	29.63	6
ATOM	11026	CB	PRO	C	982	16.764	81.331	61.147	1.00	43.45	6
ATOM	11027	CG	PRO	C	982	16.787	80.998	62.594	1.00	43.65	6
ATOM	11028	C	PRO	C	982	19.254	81.201	60.851	1.00	25.71	6
ATOM	11029	O	PRO	C	982	20.107	80.765	61.624	1.00	25.17	8
ATOM	11030	N	PHE	C	983	19.423	82.308	60.147	1.00	31.10	7
ATOM	11031	CA	PHE	C	983	20.628	83.107	60.277	1.00	28.85	6
ATOM	11032	CB	PHE	C	983	21.142	83.524	58.901	1.00	32.18	6
ATOM	11033	CG	PHE	C	983	22.035	82.513	58.259	1.00	31.04	6
ATOM	11034	CD1	PHE	C	983	22.059	82.370	56.878	1.00	29.66	6
ATOM	11035	CD2	PHE	C	983	22.845	81.697	59.034	1.00	31.27	6
ATOM	11036	CE1	PHE	C	983	22.868	81.431	56.281	1.00	29.81	6
ATOM	11037	CE2	PHE	C	983	23.664	80.749	58.439	1.00	31.41	6
ATOM	11038	CZ	PHE	C	983	23.673	80.616	57.058	1.00	31.06	6
ATOM	11039	C	PHE	C	983	20.301	84.349	61.100	1.00	27.01	6
ATOM	11040	O	PHE	C	983	19.869	85.368	60.555	1.00	25.65	8
ATOM	11041	N	GLU	C	984	20.502	84.247	62.411	1.00	37.40	7
ATOM	11042	CA	GLU	C	984	20.237	85.346	63.323	1.00	36.01	6
ATOM	11043	CB	GLU	C	984	21.034	85.162	64.605	1.00	55.68	6
ATOM	11044	CG	GLU	C	984	22.491	84.885	64.350	1.00	59.64	6
ATOM	11045	CD	GLU	C	984	22.957	83.626	65.038	1.00	62.38	6
ATOM	11046	OE1	GLU	C	984	22.263	82.599	64.897	1.00	62.80	8
ATOM	11047	OE2	GLU	C	984	24.012	83.655	65.713	1.00	64.81	8
ATOM	11048	C	GLU	C	984	20.664	86.617	62.638	1.00	33.82	6
ATOM	11049	O	GLU	C	984	21.764	86.684	62.100	1.00	34.00	8
ATOM	11050	N	GLY	C	985	19.791	87.617	62.643	1.00	30.99	7
ATOM	11051	CA	GLY	C	985	20.117	88.876	61.997	1.00	28.15	6
ATOM	11052	C	GLY	C	985	19.962	88.772	60.495	1.00	26.16	6
ATOM	11053	O	GLY	C	985	20.641	87.974	59.849	1.00	26.05	8
ATOM	11054	N	PRO	C	986	19.074	89.581	59.907	1.00	29.03	7
ATOM	11055	CD	PRO	C	986	18.449	90.779	60.484	1.00	15.25	6
ATOM	11056	CA	PRO	C	986	18.867	89.531	58.460	1.00	27.60	6
ATOM	11057	CB	PRO	C	986	18.174	90.857	58.156	1.00	14.69	6
ATOM	11058	CG	PRO	C	986	18.516	91.723	59.336	1.00	14.93	6
ATOM	11059	C	PRO	C	986	20.165	89.354	57.700	1.00	26.72	6
ATOM	11060	O	PRO	C	986	21.248	89.466	58.281	1.00	27.37	8
ATOM	11061	N	ILE	C	987	20.038	89.077	56.400	1.00	18.42	7
ATOM	11062	CA	ILE	C	987	21.171	88.845	55.501	1.00	16.80	6
ATOM	11063	CB	ILE	C	987	21.441	87.323	55.385	1.00	13.87	6
ATOM	11064	CG2	ILE	C	987	22.381	87.047	54.266	1.00	13.94	6
ATOM	11065	CG1	ILE	C	987	22.057	86.786	56.676	1.00	13.87	6
ATOM	11066	CD1	ILE	C	987	23.462	87.322	56.970	1.00	16.12	6
ATOM	11067	C	ILE	C	987	20.831	89.385	54.124	1.00	16.80	6
ATOM	11068	O	ILE	C	987	20.304	88.650	53.322	1.00	16.80	8
ATOM	11069	N	VAL	C	988	21.139	90.645	53.832	1.00	47.22	7
ATOM	11070	CA	VAL	C	988	20.786	91.234	52.525	1.00	49.47	6
ATOM	11071	CB	VAL	C	988	21.558	92.571	52.279	1.00	16.80	6
ATOM	11072	CG1	VAL	C	988	23.000	92.417	52.664	1.00	17.34	6
ATOM	11073	CG2	VAL	C	988	21.424	92.994	50.839	1.00	15.58	6
ATOM	11074	C	VAL	C	988	20.930	90.312	51.302	1.00	50.17	6
ATOM	11075	O	VAL	C	988	21.991	89.747	51.053	1.00	52.27	8
ATOM	11076	N	VAL	C	989	19.845	90.175	50.544	1.00	24.68	7
ATOM	11077	CA	VAL	C	989	19.807	89.308	49.368	1.00	25.07	6
ATOM	11078	CB	VAL	C	989	18.705	88.229	49.554	1.00	14.32	6
ATOM	11079	CG1	VAL	C	989	18.403	87.536	48.255	1.00	17.13	6

ATOM	11080	CG2	VAL	C	989	19.147	87.216	50.570	1.00	15.03	6
ATOM	11081	C	VAL	C	989	19.526	90.130	48.102	1.00	26.60	6
ATOM	11082	O	VAL	C	989	19.168	91.304	48.200	1.00	28.55	8
ATOM	11083	N	GLY	C	990	19.697	89.526	46.924	1.00	30.67	7
ATOM	11084	CA	GLY	C	990	19.438	90.234	45.677	1.00	31.43	6
ATOM	11085	C	GLY	C	990	20.007	89.601	44.409	1.00	31.89	6
ATOM	11086	O	GLY	C	990	20.667	88.568	44.455	1.00	31.21	8
ATOM	11087	N	GLN	C	991	19.737	90.216	43.261	1.00	17.81	7
ATOM	11088	CA	GLN	C	991	20.248	89.709	41.993	1.00	18.72	6
ATOM	11089	CB	GLN	C	991	19.194	89.772	40.896	1.00	44.96	6
ATOM	11090	CG	GLN	C	991	17.821	89.294	41.246	1.00	48.05	6
ATOM	11091	CD	GLN	C	991	17.051	88.956	39.991	1.00	49.93	6
ATOM	11092	OE1	GLN	C	991	16.981	89.759	39.054	1.00	49.34	8
ATOM	11093	NE2	GLN	C	991	16.479	87.761	39.955	1.00	50.17	7
ATOM	11094	C	GLN	C	991	21.416	90.553	41.518	1.00	18.07	6
ATOM	11095	O	GLN	C	991	21.221	91.573	40.866	1.00	17.99	8
ATOM	11096	N	MET	C	992	22.638	90.156	41.824	1.00	39.09	7
ATOM	11097	CA	MET	C	992	23.745	90.963	41.339	1.00	38.59	6
ATOM	11098	CB	MET	C	992	25.077	90.544	41.976	1.00	20.30	6
ATOM	11099	CG	MET	C	992	26.120	91.636	41.928	1.00	17.71	6
ATOM	11100	SD	MET	C	992	27.194	91.687	43.389	1.00	20.68	16
ATOM	11101	CE	MET	C	992	26.016	91.680	44.760	1.00	15.97	6
ATOM	11102	C	MET	C	992	23.791	90.771	39.831	1.00	39.94	6
ATOM	11103	O	MET	C	992	22.813	91.031	39.134	1.00	40.95	8
ATOM	11104	N	PHE	C	993	24.921	90.283	39.341	1.00	44.24	7
ATOM	11105	CA	PHE	C	993	25.129	90.067	37.914	1.00	44.14	6
ATOM	11106	CB	PHE	C	993	24.714	91.328	37.144	1.00	27.79	6
ATOM	11107	CG	PHE	C	993	25.320	91.456	35.774	1.00	27.42	6
ATOM	11108	CD1	PHE	C	993	26.553	92.070	35.601	1.00	27.20	6
ATOM	11109	CD2	PHE	C	993	24.628	91.025	34.651	1.00	27.04	6
ATOM	11110	CE1	PHE	C	993	27.081	92.258	34.330	1.00	26.20	6
ATOM	11111	CE2	PHE	C	993	25.150	91.210	33.378	1.00	26.64	6
ATOM	11112	CZ	PHE	C	993	26.375	91.828	33.217	1.00	26.08	6
ATOM	11113	C	PHE	C	993	26.617	89.809	37.789	1.00	44.72	6
ATOM	11114	O	PHE	C	993	27.413	90.742	37.730	1.00	45.45	8
ATOM	11115	N	ILE	C	994	26.995	88.541	37.780	1.00	44.61	7
ATOM	11116	CA	ILE	C	994	28.399	88.204	37.697	1.00	43.80	6
ATOM	11117	CB	ILE	C	994	28.784	87.142	38.737	1.00	19.13	6
ATOM	11118	CG2	ILE	C	994	30.207	87.334	39.090	1.00	20.66	6
ATOM	11119	CG1	ILE	C	994	27.911	87.231	40			

ATOM	11136	CE	LYS	C	996	33.385	80.444	32.215	1.00	13.87	6
ATOM	11137	NZ	LYS	C	996	32.800	79.143	31.773	1.00	13.87	7
ATOM	11138	C	LYS	C	996	33.904	85.345	32.860	1.00	51.11	6
ATOM	11139	O	LYS	C	996	33.804	85.125	31.658	1.00	53.25	8
ATOM	11140	N	LEU	C	997	35.025	85.784	33.426	1.00	15.42	7
ATOM	11141	CA	LEU	C	997	36.225	86.095	32.664	1.00	15.70	6
ATOM	11142	CB	LEU	C	997	37.174	86.840	33.569	1.00	13.87	6
ATOM	11143	CG	LEU	C	997	36.487	88.046	34.168	1.00	13.87	6
ATOM	11144	CD1	LEU	C	997	37.351	88.663	35.226	1.00	13.87	6
ATOM	11145	CD2	LEU	C	997	36.187	89.013	33.090	1.00	13.87	6
ATOM	11146	C	LEU	C	997	36.968	84.958	31.953	1.00	17.74	6
ATOM	11147	O	LEU	C	997	36.949	83.808	32.368	1.00	18.03	8
ATOM	11148	N	TYR	C	998	37.645	85.322	30.873	1.00	20.72	7
ATOM	11149	CA	TYR	C	998	38.408	84.407	30.035	1.00	24.37	6
ATOM	11150	CB	TYR	C	998	39.214	85.242	29.023	1.00	92.26	6
ATOM	11151	CG	TYR	C	998	40.008	84.460	27.990	1.00	96.60	6
ATOM	11152	CD1	TYR	C	998	39.480	83.321	27.372	1.00	98.30	6
ATOM	11153	CE1	TYR	C	998	40.209	82.619	26.397	1.00	98.92	6
ATOM	11154	CD2	TYR	C	998	41.283	84.880	27.607	1.00	98.51	6
ATOM	11155	CE2	TYR	C	998	42.016	84.190	26.633	1.00	98.97	6
ATOM	11156	CZ	TYR	C	998	41.476	83.064	26.035	1.00	98.33	6
ATOM	11157	OH	TYR	C	998	42.207	82.396	25.077	1.00	98.89	8
ATOM	11158	C	TYR	C	998	39.314	83.378	30.727	1.00	25.75	6
ATOM	11159	O	TYR	C	998	39.751	82.435	30.071	1.00	27.14	8
ATOM	11160	N	HIS	C	999	39.584	83.507	32.028	1.00	41.06	7
ATOM	11161	CA	HIS	C	999	40.466	82.532	32.694	1.00	43.13	6
ATOM	11162	CB	HIS	C	999	40.904	83.059	34.055	1.00	74.02	6
ATOM	11163	CG	HIS	C	999	42.100	83.956	33.975	1.00	78.41	6
ATOM	11164	CD2	HIS	C	999	42.389	84.978	33.136	1.00	79.36	6
ATOM	11165	ND1	HIS	C	999	43.190	83.824	34.812	1.00	80.62	7
ATOM	11166	CE1	HIS	C	999	44.100	84.727	34.488	1.00	80.65	6
ATOM	11167	NE2	HIS	C	999	43.640	85.440	33.475	1.00	80.99	7
ATOM	11168	C	HIS	C	999	40.014	81.061	32.827	1.00	42.37	6
ATOM	11169	O	HIS	C	999	40.634	80.165	32.249	1.00	42.56	8
ATOM	11170	N	MET	C1000		38.956	80.808	33.590	1.00	61.43	7
ATOM	11171	CA	MET	C1000		38.420	79.451	33.775	1.00	60.85	6
ATOM	11172	CB	MET	C1000		37.354	79.165	32.710	1.00	57.57	6
ATOM	11173	CG	MET	C1000		37.804	79.398	31.273	1.00	61.63	6
ATOM	11174	SD	MET	C1000		36.405	79.619	30.147	1.00	64.55	16
ATOM	11175	CE	MET	C1000		35.399	78.247	30.678	1.00	65.80	6
ATOM	11176	C	MET	C1000		39.415	78.287	33.832	1.00	59.77	6
ATOM	11177	O	MET	C1000		39.571	77.541	32.875	1.00	60.85	8
ATOM	11178	N	VAL	C1001		40.055	78.153	34.990	1.00	16.94	7
ATOM	11179	CA	VAL	C1001		41.032	77.119	35.336	1.00	14.11	6
ATOM	11180	CB	VAL	C1001		40.466	76.118	36.340	1.00	38.93	6
ATOM	11181	CG1	VAL	C1001		41.562	75.158	36.736	1.00	39.27	6
ATOM	11182	CG2	VAL	C1001		39.887	76.836	37.553	1.00	38.97	6
ATOM	11183	C	VAL	C1001		41.623	76.283	34.242	1.00	14.44	6
ATOM	11184	O	VAL	C1001		42.806	76.408	33.954	1.00	14.38	8
ATOM	11185	N	GLU	C1002		40.794	75.397	33.683	1.00	60.65	7
ATOM	11186	CA	GLU	C1002		41.168	74.466	32.614	1.00	62.16	6
ATOM	11187	CB	GLU	C1002		40.051	74.334	31.573	1.00	72.07	6
ATOM	11188	CG	GLU	C1002		38.731	73.790	32.072	1.00	75.81	6
ATOM	11189	CD	GLU	C1002		37.791	73.451	30.931	1.00	79.01	6
ATOM	11190	OE1	GLU	C1002		38.059	72.470	30.208	1.00	81.12	8
ATOM	11191	OE2	GLU	C1002		36.792	74.176	30.743	1.00	80.37	8

ATOM	11192	C	GLU	C1002	42.427	74.840	31.870	1.00	60.50	6
ATOM	11193	O	GLU	C1002	43.363	74.050	31.789	1.00	60.82	8
ATOM	11194	N	ASP	C1003	42.432	76.046	31.314	1.00	26.50	7
ATOM	11195	CA	ASP	C1003	43.557	76.539	30.544	1.00	24.70	6
ATOM	11196	CB	ASP	C1003	43.171	77.863	29.923	1.00	50.89	6
ATOM	11197	CG	ASP	C1003	41.850	77.778	29.203	1.00	52.83	6
ATOM	11198	OD1	ASP	C1003	41.358	78.817	28.722	1.00	54.56	8
ATOM	11199	OD2	ASP	C1003	41.298	76.661	29.120	1.00	53.96	8
ATOM	11200	C	ASP	C1003	44.828	76.657	31.369	1.00	23.02	6
ATOM	11201	O	ASP	C1003	45.929	76.641	30.828	1.00	22.80	8
ATOM	11202	N	LYS	C1004	44.665	76.773	32.680	1.00	19.96	7
ATOM	11203	CA	LYS	C1004	45.784	76.827	33.599	1.00	19.04	6
ATOM	11204	CB	LYS	C1004	45.507	77.803	34.730	1.00	20.56	6
ATOM	11205	CG	LYS	C1004	44.694	79.018	34.353	1.00	23.05	6
ATOM	11206	CD	LYS	C1004	45.453	79.942	33.422	1.00	24.51	6
ATOM	11207	CE	LYS	C1004	44.811	81.320	33.408	1.00	25.76	6
ATOM	11208	NZ	LYS	C1004	45.465	82.237	32.435	1.00	28.59	7
ATOM	11209	C	LYS	C1004	45.798	75.409	34.176	1.00	19.56	6
ATOM	11210	O	LYS	C1004	44.875	74.628	33.931	1.00	20.55	8
ATOM	11211	N	MET	C1005	46.826	75.077	34.953	1.00	42.15	7
ATOM	11212	CA	MET	C1005	46.944	73.753	35.570	1.00	41.06	6
ATOM	11213	CB	MET	C1005	45.607	73.299	36.187	1.00	20.69	6
ATOM	11214	CG	MET	C1005	45.116	71.887	35.804	1.00	20.20	6
ATOM	11215	SD	MET	C1005	45.128	70.556	37.078	1.00	20.38	16
ATOM	11216	CE	MET	C1005	46.148	69.418	36.337	1.00	19.70	6
ATOM	11217	C	MET	C1005	47.436	72.676	34.632	1.00	42.58	6
ATOM	11218	O	MET	C1005	46.715	72.223	33.749	1.00	44.78	8
ATOM	11219	N	HIS	C1006	48.689	72.293	34.816	1.00	13.87	7
ATOM	11220	CA	HIS	C1006	49.280	71.215	34.065	1.00	13.87	6
ATOM	11221	CB	HIS	C1006	50.369	71.735	33.126	1.00	93.10	6
ATOM	11222	CG	HIS	C1006	50.334	71.102	31.766	1.00	99.57	6
ATOM	11223	CD2	HIS	C1006	49.583	70.085	31.277	1.00	100.85	6
ATOM	11224	ND1	HIS	C1006	51.140	71.516	30.725	1.00	102.52	7
ATOM	11225	CE1	HIS	C1006	50.885	70.782	29.655	1.00	102.71	6
ATOM	11226	NE2	HIS	C1006	49.945	69.907	29.963	1.00	102.00	7
ATOM	11227	C	HIS	C1006	49.844	70.404	35.224	1.00	13.87	6
ATOM	11228	O	HIS	C1006	49.484	70.650	36.358	1.00	13.87	8
ATOM	11229	N	ALA	C1007	50.698	69.433	34.976	1.00	33.72	7
ATOM	11230	CA	ALA	C1007	51.249	68.662	36.079	1.00	34.73	6
ATOM	11231	CB	ALA	C1007	50.153	67.947	36.820	1.00	13.87	6
ATOM	11232	C	ALA	C1007	52.241	67.668	35.524	1.00	36.05	6
ATOM	11233	O	ALA	C1007	51.867	66.701	34.866	1.00	36.02	8
ATOM	11234	N	ARG	C1008	53.517	67.916	35.780	1.00	41.26	7
ATOM	11235	CA	ARG	C1008	54.565	67.043	35.281	1.00	43.17	6
ATOM	11236	CB	ARG	C1008	55.689	67.878	34.668	1.00	33.91	6
ATOM	11237	CG	ARG	C1008	56.866	67.078	34.181	1.00	32.25	6
ATOM	11238	CD	ARG	C1008	57.486	67.733	32.969	1.00	30.96	6
ATOM	11239	NE	ARG	C1008	58.791	67.162	32.682	1.00	30.64	7
ATOM	11240	CZ	ARG	C1008	59.493	67.393	31.583	1.00	29.97	6
ATOM	11241	NH1	ARG	C1008	59.026	68.193	30.635	1.00	29.22	7
ATOM	11242	NH2	ARG	C1008	60.676	66.818	31.440	1.00	30.67	7
ATOM	11243	C	ARG	C1008	55.128	66.132	36.347	1.00	45.10	6
ATOM	11244	O	ARG	C1008	55.051	66.416	37.541	1.00	45.89	8
ATOM	11245	N	SER	C1009	55.687	65.022	35.895	1.00	49.92	7
ATOM	11246	CA	SER	C1009	56.292	64.056	36.784	1.00	51.93	6
ATOM	11247	CB	SER	C1009	55.375	62.861	36.983	1.00	57.98	6

ATOM	11248	OG	SER	C1009	55.872	62.041	38.021	1.00	59.37	8
ATOM	11249	C	SER	C1009	57.547	63.617	36.080	1.00	52.84	6
ATOM	11250	O	SER	C1009	58.581	63.409	36.706	1.00	53.28	8
ATOM	11251	N	THR	C1010	57.439	63.477	34.763	1.00	27.93	7
ATOM	11252	CA	THR	C1010	58.573	63.087	33.948	1.00	29.04	6
ATOM	11253	CB	THR	C1010	58.727	61.561	33.885	1.00	37.56	6
ATOM	11254	OG1	THR	C1010	58.409	60.985	35.157	1.00	36.45	8
ATOM	11255	CG2	THR	C1010	60.165	61.205	33.559	1.00	37.90	6
ATOM	11256	C	THR	C1010	58.391	63.637	32.540	1.00	30.66	6
ATOM	11257	O	THR	C1010	58.680	64.800	32.282	1.00	30.57	8
ATOM	11258	N	GLY	C1011	57.928	62.799	31.623	1.00	42.65	7
ATOM	11259	CA	GLY	C1011	57.694	63.247	30.255	1.00	45.25	6
ATOM	11260	C	GLY	C1011	58.796	63.964	29.489	1.00	46.79	6
ATOM	11261	O	GLY	C1011	59.914	64.085	29.967	1.00	47.00	8
ATOM	11262	N	PRO	C1012	58.479	64.479	28.291	1.00	48.83	7
ATOM	11263	CD	PRO	C1012	57.064	64.689	27.931	1.00	114.49	6
ATOM	11264	CA	PRO	C1012	59.342	65.201	27.352	1.00	49.93	6
ATOM	11265	CB	PRO	C1012	58.376	66.173	26.700	1.00	114.23	6
ATOM	11266	CG	PRO	C1012	57.158	65.353	26.572	1.00	114.37	6
ATOM	11267	C	PRO	C1012	60.568	65.914	27.901	1.00	51.27	6
ATOM	11268	O	PRO	C1012	60.460	66.788	28.759	1.00	51.89	8
ATOM	11269	N	TYR	C1013	61.728	65.554	27.363	1.00	86.75	7
ATOM	11270	CA	TYR	C1013	63.019	66.141	27.745	1.00	87.75	6
ATOM	11271	CB	TYR	C1013	63.976	65.016	28.111	1.00	53.54	6
ATOM	11272	CG	TYR	C1013	64.625	65.034	29.482	1.00	53.45	6
ATOM	11273	CD1	TYR	C1013	63.866	64.966	30.650	1.00	52.95	6
ATOM	11274	CE1	TYR	C1013	64.482	64.779	31.886	1.00	52.43	6
ATOM	11275	CD2	TYR	C1013	66.020	64.937	29.594	1.00	53.96	6
ATOM	11276	CE2	TYR	C1013	66.640	64.753	30.808	1.00	53.24	6
ATOM	11277	CZ	TYR	C1013	65.875	64.667	31.946	1.00	52.45	6
ATOM	11278	OH	TYR	C1013	66.521	64.425	33.131	1.00	52.61	8
ATOM	11279	C	TYR	C1013	63.537	66.857	26.478	1.00	88.24	6
ATOM	11280	O	TYR	C1013	63.463	66.291	25.378	1.00	89.30	8
ATOM	11281	N	SER	C1014	64.069	68.072	26.610	1.00	47.08	7
ATOM	11282	CA	SER	C1014	64.545	68.794	25.427	1.00	47.39	6
ATOM	11283	CB	SER	C1014	64.378	70.292	25.598	1.00	60.42	6
ATOM	11284	OG	SER	C1014	65.170	70.966	24.627	1.00	63.02	8
ATOM	11285	C	SER	C1014	65.983	68.546	25.002	1.00	47.75	6
ATOM	11286	O	SER	C1014	66.906	68.585	25.820	1.00	47.83	8
ATOM	11287	N	LEU	C1015	66.170	68.342	23.699	1.00	70.61	7
ATOM	11288	CA	LEU	C1015	67.491	68.071	23.150	1.00	69.98	6
ATOM	11289	CB	LEU	C1015	67.386	67.105	21.969	1.00	114.54	6
ATOM	11290	CG	LEU	C1015	66.451	67.451	20.811	1.00	115.93	6
ATOM	11291	CD1	LEU	C1015	66.940	68.690	20.084	1.00	116.00	6
ATOM	11292	CD2	LEU	C1015	66.392	66.264	19.860	1.00	116.40	6
ATOM	11293	C	LEU	C1015	68.296	69.287	22.738	1.00	68.72	6
ATOM	11294	O	LEU	C1015	69.349	69.139	22.133	1.00	68.77	8
ATOM	11295	N	ILE	C1016	67.803	70.484	23.039	1.00	37.53	7
ATOM	11296	CA	ILE	C1016	68.548	71.699	22.718	1.00	36.23	6
ATOM	11297	CB	ILE	C1016	67.667	72.807	22.170	1.00	50.00	6
ATOM	11298	CG2	ILE	C1016	68.508	74.065	21.950	1.00	48.92	6
ATOM	11299	CG1	ILE	C1016	67.011	72.346	20.875	1.00	49.95	6
ATOM	11300	CD1	ILE	C1016	67.986	72.089	19.768	1.00	50.95	6
ATOM	11301	C	ILE	C1016	69.152	72.224	24.001	1.00	35.96	6
ATOM	11302	O	ILE	C1016	70.359	72.441	24.083	1.00	35.90	8
ATOM	11303	N	THR	C1017	68.292	72.443	24.994	1.00	39.57	7



ATOM	11304	CA	THR	C1017	68.722	72.929	26.300	1.00	39.57	6
ATOM	11305	CB	THR	C1017	67.583	73.655	27.052	1.00	88.65	6
ATOM	11306	OG1	THR	C1017	66.860	74.501	26.146	1.00	88.92	8
ATOM	11307	CG2	THR	C1017	68.162	74.509	28.171	1.00	89.88	6
ATOM	11308	C	THR	C1017	69.097	71.676	27.068	1.00	39.20	6
ATOM	11309	O	THR	C1017	70.265	71.333	27.164	1.00	38.71	8
ATOM	11310	N	GLN	C1018	68.085	71.002	27.600	1.00	17.95	7
ATOM	11311	CA	GLN	C1018	68.233	69.745	28.331	1.00	18.99	6
ATOM	11312	CB	GLN	C1018	69.688	69.452	28.670	1.00	56.47	6
ATOM	11313	CG	GLN	C1018	70.209	68.246	27.920	1.00	58.39	6
ATOM	11314	CD	GLN	C1018	69.214	67.107	27.933	1.00	58.71	6
ATOM	11315	OE1	GLN	C1018	68.140	67.206	27.351	1.00	58.37	8
ATOM	11316	NE2	GLN	C1018	69.565	66.020	28.601	1.00	59.16	7
ATOM	11317	C	GLN	C1018	67.398	69.628	29.591	1.00	19.88	6
ATOM	11318	O	GLN	C1018	67.473	68.624	30.312	1.00	18.83	8
ATOM	11319	N	GLN	C1019	66.603	70.658	29.847	1.00	47.41	7
ATOM	11320	CA	GLN	C1019	65.716	70.670	30.990	1.00	50.89	6
ATOM	11321	CB	GLN	C1019	65.710	72.060	31.623	1.00	49.09	6
ATOM	11322	CG	GLN	C1019	66.269	73.139	30.730	1.00	48.74	6
ATOM	11323	CD	GLN	C1019	66.348	74.477	31.428	1.00	48.54	6
ATOM	11324	OE1	GLN	C1019	66.829	74.574	32.554	1.00	49.01	8
ATOM	11325	NE2	GLN	C1019	65.889	75.522	30.757	1.00	48.79	7
ATOM	11326	C	GLN	C1019	64.308	70.280	30.513	1.00	53.88	6
ATOM	11327	O	GLN	C1019	64.002	70.346	29.323	1.00	54.77	8
ATOM	11328	N	PRO	C1020	63.443	69.843	31.438	1.00	44.35	7
ATOM	11329	CD	PRO	C1020	63.750	69.666	32.869	1.00	98.24	6
ATOM	11330	CA	PRO	C1020	62.066	69.434	31.157	1.00	47.24	6
ATOM	11331	CB	PRO	C1020	61.458	69.356	32.551	1.00	99.76	6
ATOM	11332	CG	PRO	C1020	62.584	68.832	33.353	1.00	99.02	6
ATOM	11333	C	PRO	C1020	61.314	70.419	30.265	1.00	50.54	6
ATOM	11334	O	PRO	C1020	61.434	71.626	30.451	1.00	49.81	8
ATOM	11335	N	LEU	C1021	60.545	69.896	29.310	1.00	94.66	7
ATOM	11336	CA	LEU	C1021	59.742	70.709	28.392	1.00	99.47	6
ATOM	11337	CB	LEU	C1021	60.335	72.115	28.205	1.00	184.73	6
ATOM	11338	CG	LEU	C1021	59.764	73.255	29.060	1.00	186.62	6
ATOM	11339	CD1	LEU	C1021	60.683	74.459	28.957	1.00	186.97	6
ATOM	11340	CD2	LEU	C1021	58.350	73.609	28.609	1.00	188.57	6
ATOM	11341	C	LEU	C1021	59.570	70.069	27.025	1.00	102.04	6
ATOM	11342	O	LEU	C1021	59.666	68.854	26.884	1.00	102.75	8
ATOM	11343	N	GLY	C1022	59.305	70.916	26.033	1.00	87.07	7
ATOM	11344	CA	GLY	C1022	59.107	70.488	24.657	1.00	90.28	6
ATOM	11345	C	GLY	C1022	59.074	68.998	24.379	1.00	92.33	6
ATOM	11346	O	GLY	C1022	60.107	68.329	24.406	1.00	92.40	8
ATOM	11347	N	GLY	C1023	57.882	68.480	24.094	1.00	208.87	7
ATOM	11348	CA	GLY	C1023	57.740	67.063	23.806	1.00	208.87	6
ATOM	11349	C	GLY	C1023	56.633	66.740	22.822	1.00	208.87	6
ATOM	11350	O	GLY	C1023	56.423	67.473	21.853	1.00	208.87	8
ATOM	11351	N	LYS	C1024	55.919	65.643	23.069	1.00	154.54	7
ATOM	11352	CA	LYS	C1024	54.839	65.221	22.186	1.00	155.10	6
ATOM	11353	CB	LYS	C1024	55.418	64.465	20.983	1.00	208.87	6
ATOM	11354	CG	LYS	C1024	56.416	65.266	20.150	1.00	208.87	6
ATOM	11355	CD	LYS	C1024	57.177	64.393	19.159	1.00	208.87	6
ATOM	11356	CE	LYS	C1024	58.222	65.204	18.400	1.00	208.87	6
ATOM	11357	NZ	LYS	C1024	59.015	64.369	17.456	1.00	208.87	7
ATOM	11358	C	LYS	C1024	53.819	64.332	22.895	1.00	154.31	6
ATOM	11359	O	LYS	C1024	52.613	64.492	22.705	1.00	154.61	8

ATOM	11360	N	ALA	C1025	54.310	63.400	23.710	1.00	98.15	7
ATOM	11361	CA	ALA	C1025	53.453	62.453	24.432	1.00	96.34	6
ATOM	11362	CB	ALA	C1025	54.306	61.318	24.994	1.00	167.23	6
ATOM	11363	C	ALA	C1025	52.634	63.091	25.550	1.00	94.94	6
ATOM	11364	O	ALA	C1025	51.509	63.544	25.335	1.00	93.58	8
ATOM	11365	N	GLN	C1026	53.190	63.079	26.755	1.00	132.87	7
ATOM	11366	CA	GLN	C1026	52.532	63.691	27.897	1.00	132.40	6
ATOM	11367	CB	GLN	C1026	53.036	63.076	29.204	1.00	208.77	6
ATOM	11368	CG	GLN	C1026	52.752	61.586	29.357	1.00	208.87	6
ATOM	11369	CD	GLN	C1026	53.571	60.719	28.414	1.00	208.87	6
ATOM	11370	OE1	GLN	C1026	54.801	60.698	28.479	1.00	208.87	8
ATOM	11371	NE2	GLN	C1026	52.889	59.995	27.534	1.00	208.87	7
ATOM	11372	C	GLN	C1026	52.975	65.138	27.800	1.00	131.14	6
ATOM	11373	O	GLN	C1026	53.337	65.595	26.716	1.00	131.60	8
ATOM	11374	N	PHE	C1027	52.966	65.860	28.913	1.00	82.92	7
ATOM	11375	CA	PHE	C1027	53.403	67.250	28.877	1.00	80.71	6
ATOM	11376	CB	PHE	C1027	52.459	68.074	27.998	1.00	208.87	6
ATOM	11377	CG	PHE	C1027	53.164	68.885	26.947	1.00	208.87	6
ATOM	11378	CD1	PHE	C1027	54.015	68.271	26.032	1.00	208.87	6
ATOM	11379	CD2	PHE	C1027	52.973	70.261	26.864	1.00	208.87	6
ATOM	11380	CE1	PHE	C1027	54.665	69.013	25.052	1.00	208.87	6
ATOM	11381	CE2	PHE	C1027	53.620	71.014	25.884	1.00	208.87	6
ATOM	11382	CZ	PHE	C1027	54.467	70.387	24.976	1.00	208.87	6
ATOM	11383	C	PHE	C1027	53.508	67.887	30.255	1.00	77.67	6
ATOM	11384	O	PHE	C1027	52.813	67.496	31.195	1.00	77.36	8
ATOM	11385	N	GLY	C1028	54.389	68.873	30.369	1.00	49.95	7
ATOM	11386	CA	GLY	C1028	54.552	69.539	31.642	1.00	46.68	6
ATOM	11387	C	GLY	C1028	55.682	70.545	31.700	1.00	43.63	6
ATOM	11388	O	GLY	C1028	55.707	71.511	30.943	1.00	44.95	8
ATOM	11389	N	GLY	C1029	56.620	70.313	32.608	1.00	66.31	7
ATOM	11390	CA	GLY	C1029	57.730	71.223	32.762	1.00	63.47	6
ATOM	11391	C	GLY	C1029	57.277	72.286	33.730	1.00	61.22	6
ATOM	11392	O	GLY	C1029	56.098	72.607	33.764	1.00	62.75	8
ATOM	11393	N	GLN	C1030	58.193	72.824	34.525	1.00	81.20	7
ATOM	11394	CA	GLN	C1030	57.850	73.854	35.496	1.00	78.10	6
ATOM	11395	CB	GLN	C1030	57.485	73.210	36.816	1.00	31.57	6
ATOM	11396	CG	GLN	C1030	56.815	74.167	37.728	1.00	28.64	6
ATOM	11397	CD	GLN	C1030	55.739	74.943	37.028	1.00	25.08	6
ATOM	11398	OE1	GLN	C1030	54.896	74.372	36.352	1.00	21.41	8
ATOM	11399	NE2	GLN	C1030	55.756	76.257	37.189	1.00	26.95	7
ATOM	11400	C	GLN	C1030	59.050	74.755	35.689	1.00	77.82	6
ATOM	11401	O	GLN	C1030	60.161	74.351	35.381	1.00	79.19	8
ATOM	11402	N	ARG	C1031	58.856	75.963	36.205	1.00	45.25	7
ATOM	11403	CA	ARG	C1031	60.001	76.849	36.373	1.00	44.23	6
ATOM	11404	CB	ARG	C1031	59.735	78.199	35.702	1.00	110.67	6
ATOM	11405	CG	ARG	C1031	59.607	79.394	36.643	1.00	113.90	6
ATOM	11406	CD	ARG	C1031	58.163	79.634	37.099	1.00	115.04	6
ATOM	11407	NE	ARG	C1031	57.921	81.056	37.355	1.00	115.65	7
ATOM	11408	CZ	ARG	C1031	56.733	81.584	37.635	1.00	116.14	6
ATOM	11409	NH1	ARG	C1031	55.653	80.814	37.705	1.00	116.14	7
ATOM	11410	NH2	ARG	C1031	56.628	82.890	37.833	1.00	116.64	7
ATOM	11411	C	ARG	C1031	60.443	77.055	37.809	1.00	41.69	6
ATOM	11412	O	ARG	C1031	59.641	76.984	38.736	1.00	42.41	8
ATOM	11413	N	PHE	C1032	61.734	77.327	37.981	1.00	40.03	7
ATOM	11414	CA	PHE	C1032	62.296	77.530	39.308	1.00	37.15	6
ATOM	11415	CB	PHE	C1032	63.197	76.363	39.645	1.00	20.08	6

ATOM	11416	CG	PHE	C1032	63.291	76.088	41.105	1.00	15.12	6
ATOM	11417	CD1	PHE	C1032	62.133	75.992	41.875	1.00	13.87	6
ATOM	11418	CD2	PHE	C1032	64.528	75.902	41.709	1.00	13.87	6
ATOM	11419	CE1	PHE	C1032	62.200	75.714	43.217	1.00	13.87	6
ATOM	11420	CE2	PHE	C1032	64.608	75.626	43.041	1.00	13.87	6
ATOM	11421	CZ	PHE	C1032	63.435	75.530	43.806	1.00	13.87	6
ATOM	11422	C	PHE	C1032	63.076	78.835	39.467	1.00	37.93	6
ATOM	11423	O	PHE	C1032	64.089	78.882	40.163	1.00	38.84	8
ATOM	11424	N	GLY	C1033	62.577	79.895	38.830	1.00	61.10	7
ATOM	11425	CA	GLY	C1033	63.213	81.203	38.884	1.00	59.25	6
ATOM	11426	C	GLY	C1033	63.779	81.651	40.218	1.00	57.87	6
ATOM	11427	O	GLY	C1033	63.054	81.901	41.170	1.00	58.37	8
ATOM	11428	N	GLU	C1034	65.097	81.752	40.260	1.00	35.29	7
ATOM	11429	CA	GLU	C1034	65.857	82.182	41.424	1.00	33.00	6
ATOM	11430	CB	GLU	C1034	66.677	83.414	41.060	1.00	27.87	6
ATOM	11431	CG	GLU	C1034	65.836	84.585	40.637	1.00	26.20	6
ATOM	11432	CD	GLU	C1034	66.580	85.890	40.726	1.00	24.84	6
ATOM	11433	OE1	GLU	C1034	67.141	86.180	41.807	1.00	25.48	8
ATOM	11434	OE2	GLU	C1034	66.593	86.629	39.720	1.00	22.96	8
ATOM	11435	C	GLU	C1034	65.140	82.462	42.741	1.00	32.41	6
ATOM	11436	O	GLU	C1034	65.570	81.964	43.774	1.00	33.50	8
ATOM	11437	N	MET	C1035	64.091	83.285	42.724	1.00	33.04	7
ATOM	11438	CA	MET	C1035	63.328	83.639	43.942	1.00	32.68	6
ATOM	11439	CB	MET	C1035	61.990	84.263	43.553	1.00	45.39	6
ATOM	11440	CG	MET	C1035	62.119	85.470	42.667	1.00	47.77	6
ATOM	11441	SD	MET	C1035	62.423	86.954	43.583	1.00	49.69	16
ATOM	11442	CE	MET	C1035	60.892	87.829	43.198	1.00	49.06	6
ATOM	11443	C	MET	C1035	63.048	82.441	44.853	1.00	31.66	6
ATOM	11444	O	MET	C1035	63.073	82.546	46.086	1.00	30.23	8
ATOM	11445	N	GLU	C1036	62.747	81.317	44.214	1.00	43.75	7
ATOM	11446	CA	GLU	C1036	62.471	80.068	44.891	1.00	42.00	6
ATOM	11447	CB	GLU	C1036	61.799	79.098	43.919	1.00	70.48	6
ATOM	11448	CG	GLU	C1036	60.411	79.552	43.437	1.00	73.46	6
ATOM	11449	CD	GLU	C1036	60.437	80.813	42.572	1.00	74.77	6
ATOM	11450	OE1	GLU	C1036	60.961	80.756	41.442	1.00	74.81	8
ATOM	11451	OE2	GLU	C1036	59.927	81.860	43.021	1.00	76.12	8
ATOM	11452	C	GLU	C1036	63.801	79.505	45.381	1.00	40.42	6
ATOM	11453	O	GLU	C1036	63.846	78.777	46.369	1.00	40.09	8
ATOM	11454	N	VAL	C1037	64.886	79.852	44.687	1.00	51.83	7
ATOM	11455	CA	VAL	C1037	66.232	79.413	45.070	1.00	50.11	6
ATOM	11456	CB	VAL	C1037	67.305	79.845	44.058	1.00	31.64	6
ATOM	11457									

ATOM	11472	CH2	TRP	C1038	66.411	87.998	44.736	1.00	28.83	6
ATOM	11473	C	TRP	C1038	65.806	81.353	48.796	1.00	28.68	6
ATOM	11474	O	TRP	C1038	66.289	80.948	49.844	1.00	28.13	8
ATOM	11475	N	ALA	C1039	64.515	81.215	48.499	1.00	18.31	7
ATOM	11476	CA	ALA	C1039	63.565	80.558	49.399	1.00	17.79	6
ATOM	11477	CB	ALA	C1039	62.329	80.121	48.633	1.00	62.41	6
ATOM	11478	C	ALA	C1039	64.200	79.360	50.054	1.00	17.24	6
ATOM	11479	O	ALA	C1039	64.203	79.259	51.270	1.00	16.36	8
ATOM	11480	N	LEU	C1040	64.740	78.452	49.244	1.00	14.18	7
ATOM	11481	CA	LEU	C1040	65.391	77.254	49.776	1.00	13.87	6
ATOM	11482	CB	LEU	C1040	65.697	76.246	48.657	1.00	40.62	6
ATOM	11483	CG	LEU	C1040	64.594	75.316	48.107	1.00	42.47	6
ATOM	11484	CD1	LEU	C1040	63.908	74.560	49.245	1.00	42.97	6
ATOM	11485	CD2	LEU	C1040	63.579	76.119	47.341	1.00	42.23	6
ATOM	11486	C	LEU	C1040	66.669	77.590	50.543	1.00	13.87	6
ATOM	11487	O	LEU	C1040	66.893	77.069	51.630	1.00	13.87	8
ATOM	11488	N	GLU	C1041	67.506	78.457	49.976	1.00	29.26	7
ATOM	11489	CA	GLU	C1041	68.733	78.857	50.655	1.00	28.23	6
ATOM	11490	CB	GLU	C1041	69.457	80.000	49.901	1.00	19.32	6
ATOM	11491	CG	GLU	C1041	69.804	79.664	48.436	1.00	19.62	6
ATOM	11492	CD	GLU	C1041	71.042	80.396	47.870	1.00	20.88	6
ATOM	11493	OE1	GLU	C1041	71.017	81.622	47.594	1.00	18.20	8
ATOM	11494	OE2	GLU	C1041	72.064	79.713	47.684	1.00	22.50	8
ATOM	11495	C	GLU	C1041	68.280	79.319	52.040	1.00	27.64	6
ATOM	11496	O	GLU	C1041	68.595	78.686	53.043	1.00	27.24	8
ATOM	11497	N	ALA	C1042	67.494	80.391	52.078	1.00	15.12	7
ATOM	11498	CA	ALA	C1042	66.985	80.964	53.320	1.00	15.86	6
ATOM	11499	CB	ALA	C1042	65.865	81.938	53.021	1.00	42.81	6
ATOM	11500	C	ALA	C1042	66.496	79.894	54.274	1.00	17.96	6
ATOM	11501	O	ALA	C1042	66.644	80.020	55.495	1.00	18.10	8
ATOM	11502	N	TYR	C1043	65.897	78.846	53.713	1.00	45.50	7
ATOM	11503	CA	TYR	C1043	65.404	77.735	54.516	1.00	47.36	6
ATOM	11504	CB	TYR	C1043	64.442	76.872	53.702	1.00	32.82	6
ATOM	11505	CG	TYR	C1043	62.985	77.130	53.990	1.00	33.23	6
ATOM	11506	CD1	TYR	C1043	62.043	77.093	52.977	1.00	33.36	6
ATOM	11507	CE1	TYR	C1043	60.688	77.285	53.239	1.00	35.07	6
ATOM	11508	CD2	TYR	C1043	62.543	77.366	55.279	1.00	34.22	6
ATOM	11509	CE2	TYR	C1043	61.191	77.556	55.555	1.00	34.94	6
ATOM	11510	CZ	TYR	C1043	60.271	77.513	54.530	1.00	35.90	6
ATOM	11511	OH	TYR	C1043	58.938	77.694	54.796	1.00	37.46	8
ATOM	11512	C	TYR	C1043	66.609	76.918	54.949	1.00	48.24	6
ATOM	1									

ATOM	11528	N	HIS	C1047	69.661	69.848	50.167	1.00	17.97	7
ATOM	11529	CA	HIS	C1047	69.401	68.702	49.289	1.00	18.62	6
ATOM	11530	CB	HIS	C1047	69.140	67.441	50.111	1.00	82.51	6
ATOM	11531	CG	HIS	C1047	70.311	67.004	50.928	1.00	85.62	6
ATOM	11532	CD2	HIS	C1047	70.498	66.961	52.267	1.00	86.23	6
ATOM	11533	ND1	HIS	C1047	71.488	66.569	50.362	1.00	87.32	7
ATOM	11534	CE1	HIS	C1047	72.350	66.276	51.318	1.00	87.47	6
ATOM	11535	NE2	HIS	C1047	71.773	66.505	52.484	1.00	87.30	7
ATOM	11536	C	HIS	C1047	68.205	68.969	48.406	1.00	18.10	6
ATOM	11537	O	HIS	C1047	68.251	68.774	47.192	1.00	16.18	8
ATOM	11538	N	THR	C1048	67.128	69.410	49.042	1.00	41.71	7
ATOM	11539	CA	THR	C1048	65.890	69.716	48.352	1.00	42.95	6
ATOM	11540	CB	THR	C1048	64.840	70.267	49.349	1.00	25.95	6
ATOM	11541	OG1	THR	C1048	64.529	69.265	50.326	1.00	24.53	8
ATOM	11542	CG2	THR	C1048	63.574	70.664	48.636	1.00	25.54	6
ATOM	11543	C	THR	C1048	66.194	70.736	47.258	1.00	44.10	6
ATOM	11544	O	THR	C1048	65.448	70.859	46.285	1.00	45.27	8
ATOM	11545	N	LEU	C1049	67.300	71.457	47.414	1.00	20.73	7
ATOM	11546	CA	LEU	C1049	67.689	72.436	46.416	1.00	22.41	6
ATOM	11547	CB	LEU	C1049	68.462	73.580	47.046	1.00	14.67	6
ATOM	11548	CG	LEU	C1049	69.024	74.548	46.008	1.00	13.87	6
ATOM	11549	CD1	LEU	C1049	67.920	75.428	45.470	1.00	13.87	6
ATOM	11550	CD2	LEU	C1049	70.105	75.393	46.635	1.00	13.87	6
ATOM	11551	C	LEU	C1049	68.532	71.800	45.307	1.00	25.25	6
ATOM	11552	O	LEU	C1049	68.120	71.802	44.153	1.00	26.31	8
ATOM	11553	N	GLN	C1050	69.699	71.253	45.643	1.00	68.14	7
ATOM	11554	CA	GLN	C1050	70.576	70.610	44.646	1.00	70.78	6
ATOM	11555	CB	GLN	C1050	71.694	69.829	45.351	1.00	70.95	6
ATOM	11556	CG	GLN	C1050	72.576	68.969	44.445	1.00	71.54	6
ATOM	11557	CD	GLN	C1050	73.733	68.324	45.201	1.00	73.07	6
ATOM	11558	OE1	GLN	C1050	73.534	67.546	46.138	1.00	73.69	8
ATOM	11559	NE2	GLN	C1050	74.951	68.652	44.795	1.00	73.59	7
ATOM	11560	C	GLN	C1050	69.808	69.660	43.728	1.00	72.51	6
ATOM	11561	O	GLN	C1050	70.227	69.362	42.612	1.00	74.13	8
ATOM	11562	N	GLU	C1051	68.677	69.190	44.227	1.00	47.00	7
ATOM	11563	CA	GLU	C1051	67.801	68.269	43.517	1.00	47.80	6
ATOM	11564	CB	GLU	C1051	66.749	67.772	44.516	1.00	87.07	6
ATOM	11565	CG	GLU	C1051	65.719	66.820	43.979	1.00	89.43	6
ATOM	11566	CD	GLU	C1051	64.757	66.371	45.059	1.00	91.00	6
ATOM	11567	OE1	GLU	C1051	64.244	67.239	45.798	1.00	91.45	8
ATOM	11568	OE2	GLU	C1051	64.508	65.154	45.163	1.00	91.93	8
ATOM	11569	C	GLU	C1051	67.142	68.955	42.320	1.00	46.49	6
ATOM	11570	O	GLU	C1051	66.878	68.343	41.283	1.00	46.46	8
ATOM	11571	N	MET	C1052	66.894	70.244	42.479	1.00	33.53	7
ATOM	11572	CA	MET	C1052	66.252	71.033	41.452	1.00	32.50	6
ATOM	11573	CB	MET	C1052	65.346	72.086	42.112	1.00	52.50	6
ATOM	11574	CG	MET	C1052	63.843	71.788	41.962	1.00	54.28	6
ATOM	11575	SD	MET	C1052	62.727	72.440	43.248	1.00	55.26	16
ATOM	11576	CE	MET	C1052	61.470	71.163	43.275	1.00	53.55	6
ATOM	11577	C	MET	C1052	67.248	71.682	40.501	1.00	30.92	6
ATOM	11578	O	MET	C1052	66.957	72.690	39.876	1.00	30.06	8
ATOM	11579	N	LEU	C1053	68.432	71.105	40.395	1.00	68.89	7
ATOM	11580	CA	LEU	C1053	69.443	71.627	39.490	1.00	68.99	6
ATOM	11581	CB	LEU	C1053	70.306	72.684	40.179	1.00	67.82	6
ATOM	11582	CG	LEU	C1053	69.706	73.932	40.839	1.00	69.43	6
ATOM	11583	CD1	LEU	C1053	68.706	74.629	39.927	1.00	68.76	6

ATOM	11584	CD2	LEU	C1053	69.050	73.528	42.126	1.00	70.12	6
ATOM	11585	C	LEU	C1053	70.295	70.423	39.138	1.00	68.46	6
ATOM	11586	O	LEU	C1053	71.409	70.545	38.637	1.00	69.90	8
ATOM	11587	N	THR	C1054	69.736	69.250	39.405	1.00	39.11	7
ATOM	11588	CA	THR	C1054	70.414	67.983	39.177	1.00	35.96	6
ATOM	11589	CB	THR	C1054	71.110	67.521	40.479	1.00	59.10	6
ATOM	11590	OG1	THR	C1054	71.969	68.562	40.951	1.00	60.89	8
ATOM	11591	CG2	THR	C1054	71.927	66.274	40.244	1.00	60.72	6
ATOM	11592	C	THR	C1054	69.382	66.932	38.774	1.00	33.47	6
ATOM	11593	O	THR	C1054	68.821	66.966	37.677	1.00	32.96	8
ATOM	11594	N	ILE	C1055	69.147	66.007	39.696	1.00	24.25	7
ATOM	11595	CA	ILE	C1055	68.202	64.917	39.547	1.00	22.76	6
ATOM	11596	CB	ILE	C1055	67.863	64.323	40.945	1.00	71.16	6
ATOM	11597	CG2	ILE	C1055	67.064	63.050	40.814	1.00	73.15	6
ATOM	11598	CG1	ILE	C1055	69.152	64.015	41.708	1.00	73.03	6
ATOM	11599	CD1	ILE	C1055	69.823	65.230	42.326	1.00	74.82	6
ATOM	11600	C	ILE	C1055	66.901	65.350	38.861	1.00	20.58	6
ATOM	11601	O	ILE	C1055	66.015	64.530	38.636	1.00	19.60	8
ATOM	11602	N	LYS	C1056	66.759	66.620	38.509	1.00	30.64	7
ATOM	11603	CA	LYS	C1056	65.512	67.010	37.867	1.00	29.46	6
ATOM	11604	CB	LYS	C1056	64.611	67.710	38.898	1.00	37.57	6
ATOM	11605	CG	LYS	C1056	64.300	66.874	40.146	1.00	36.56	6
ATOM	11606	CD	LYS	C1056	62.971	67.288	40.790	1.00	36.77	6
ATOM	11607	CE	LYS	C1056	63.164	67.898	42.175	1.00	36.68	6
ATOM	11608	NZ	LYS	C1056	61.899	68.327	42.849	1.00	36.50	7
ATOM	11609	C	LYS	C1056	65.588	67.850	36.581	1.00	28.70	6
ATOM	11610	O	LYS	C1056	64.594	68.448	36.175	1.00	27.32	8
ATOM	11611	N	SER	C1057	66.728	67.889	35.907	1.00	33.53	7
ATOM	11612	CA	SER	C1057	66.763	68.714	34.711	1.00	34.79	6
ATOM	11613	CB	SER	C1057	66.781	70.191	35.143	1.00	41.35	6
ATOM	11614	OG	SER	C1057	66.640	71.087	34.055	1.00	40.46	8
ATOM	11615	C	SER	C1057	67.892	68.432	33.709	1.00	36.44	6
ATOM	11616	O	SER	C1057	67.652	67.918	32.609	1.00	36.41	8
ATOM	11617	N	ASP	C1058	69.123	68.756	34.086	1.00	41.70	7
ATOM	11618	CA	ASP	C1058	70.250	68.572	33.189	1.00	42.89	6
ATOM	11619	CB	ASP	C1058	71.175	69.768	33.307	1.00	72.96	6
ATOM	11620	CG	ASP	C1058	70.419	71.041	33.543	1.00	75.70	6
ATOM	11621	OD1	ASP	C1058	69.565	71.384	32.697	1.00	76.87	8
ATOM	11622	OD2	ASP	C1058	70.670	71.691	34.580	1.00	76.41	8
ATOM	11623	C	ASP	C1058	71.037	67.315	33.453	1.00	43.10	6
ATOM	11624	O	ASP	C1058	71.460	66.637	32.514	1.00	44.09	8
ATOM	11625	N	ASP	C1059	71.240	67.022	34.734	1.00	40.94	7
ATOM	11626	CA	ASP	C1059	72.009	65.860	35.169	1.00	40.89	6
ATOM	11627	CB	ASP	C1059	72.100	65.851	36.693	1.00	59.93	6
ATOM	11628	CG	ASP	C1059	73.229	64.985	37.209	1.00	59.94	6
ATOM	11629	OD1	ASP	C1059	73.206	63.754	36.993	1.00	60.63	8
ATOM	11630	OD2	ASP	C1059	74.145	65.550	37.840	1.00	59.46	8
ATOM	11631	C	ASP	C1059	71.392	64.564	34.677	1.00	41.14	6
ATOM	11632	O	ASP	C1059	70.647	63.904	35.404	1.00	41.24	8
ATOM	11633	N	ILE	C1060	71.723	64.200	33.439	1.00	29.51	7
ATOM	11634	CA	ILE	C1060	71.194	62.996	32.809	1.00	29.42	6
ATOM	11635	CB	ILE	C1060	71.833	62.799	31.440	1.00	33.65	6
ATOM	11636	CG2	ILE	C1060	71.690	61.376	30.984	1.00	33.67	6
ATOM	11637	CG1	ILE	C1060	71.161	63.768	30.469	1.00	35.61	6
ATOM	11638	CD1	ILE	C1060	71.539	63.619	29.014	1.00	39.90	6
ATOM	11639	C	ILE	C1060	71.348	61.755	33.667	1.00	29.48	6

ATOM	11640	O	ILE	C1060	70.389	60.999	33.844	1.00	28.33	8
ATOM	11641	N	GLU	C1061	72.554	61.552	34.192	1.00	42.18	7
ATOM	11642	CA	GLU	C1061	72.825	60.425	35.070	1.00	42.34	6
ATOM	11643	CB	GLU	C1061	74.230	60.533	35.672	1.00	93.65	6
ATOM	11644	CG	GLU	C1061	75.328	59.915	34.818	1.00	98.94	6
ATOM	11645	CD	GLU	C1061	75.348	58.392	34.889	1.00	101.92	6
ATOM	11646	OE1	GLU	C1061	74.277	57.771	34.706	1.00	102.54	8
ATOM	11647	OE2	GLU	C1061	76.437	57.815	35.118	1.00	104.01	8
ATOM	11648	C	GLU	C1061	71.792	60.529	36.166	1.00	41.28	6
ATOM	11649	O	GLU	C1061	70.786	59.832	36.139	1.00	41.16	8
ATOM	11650	N	GLY	C1062	72.043	61.430	37.109	1.00	39.43	7
ATOM	11651	CA	GLY	C1062	71.135	61.637	38.223	1.00	39.42	6
ATOM	11652	C	GLY	C1062	69.658	61.633	37.873	1.00	39.41	6
ATOM	11653	O	GLY	C1062	68.844	61.044	38.593	1.00	38.93	8
ATOM	11654	N	ALA	C1063	69.299	62.298	36.781	1.00	30.84	7
ATOM	11655	CA	ALA	C1063	67.903	62.332	36.359	1.00	30.59	6
ATOM	11656	CB	ALA	C1063	67.787	62.893	34.957	1.00	25.00	6
ATOM	11657	C	ALA	C1063	67.402	60.909	36.379	1.00	31.03	6
ATOM	11658	O	ALA	C1063	66.524	60.565	37.159	1.00	30.00	8
ATOM	11659	N	ASN	C1064	68.006	60.089	35.522	1.00	47.03	7
ATOM	11660	CA	ASN	C1064	67.670	58.676	35.380	1.00	47.79	6
ATOM	11661	CB	ASN	C1064	68.636	58.011	34.409	1.00	61.15	6
ATOM	11662	CG	ASN	C1064	68.922	58.873	33.197	1.00	62.05	6
ATOM	11663	OD1	ASN	C1064	68.104	59.695	32.793	1.00	61.27	8
ATOM	11664	ND2	ASN	C1064	70.089	58.678	32.602	1.00	65.22	7
ATOM	11665	C	ASN	C1064	67.684	57.930	36.707	1.00	48.16	6
ATOM	11666	O	ASN	C1064	66.871	57.033	36.932	1.00	47.80	8
ATOM	11667	N	ALA	C1065	68.614	58.293	37.582	1.00	40.42	7
ATOM	11668	CA	ALA	C1065	68.692	57.667	38.894	1.00	42.32	6
ATOM	11669	CB	ALA	C1065	69.823	58.272	39.703	1.00	116.17	6
ATOM	11670	C	ALA	C1065	67.366	57.943	39.570	1.00	43.55	6
ATOM	11671	O	ALA	C1065	66.959	57.215	40.457	1.00	43.00	8
ATOM	11672	N	ALA	C1066	66.693	59.003	39.134	1.00	53.27	7
ATOM	11673	CA	ALA	C1066	65.398	59.367	39.695	1.00	55.91	6
ATOM	11674	CB	ALA	C1066	65.098	60.833	39.421	1.00	50.08	6
ATOM	11675	C	ALA	C1066	64.279	58.496	39.134	1.00	57.12	6
ATOM	11676	O	ALA	C1066	63.570	57.829	39.880	1.00	57.12	8
ATOM	11677	N	TYR	C1067	64.116	58.505	37.818	1.00	66.31	7
ATOM	11678	CA	TYR	C1067	63.069	57.710	37.207	1.00	67.30	6
ATOM	11679	CB	TYR	C1067	62.896	58.062	35.732	1.00	78.92	6
ATOM	11680	CG	TYR	C1067	61.901	57.150	35.083	1.00	79.83	6
ATOM	11681	CD1	TYR	C1067	60.603	57.066	35.571	1.00	80.62	6
ATOM	11682	CE1	TYR	C1067	59.710	56.122	35.083	1.00	81.65	6
ATOM	11683	CD2	TYR	C1067	62.282	56.275	34.076	1.00	79.94	6
ATOM	11684	CE2	TYR	C1067	61.397	55.325	33.578	1.00	80.93	6
ATOM	11685	CZ	TYR	C1067	60.113	55.252	34.092	1.00	81.31	6
ATOM	11686	OH	TYR	C1067	59.242	54.286	33.643	1.00	81.64	8
ATOM	11687	C	TYR	C1067	63.332	56.218	37.337	1.00	68.80	6
ATOM	11688	O	TYR	C1067	62.598	55.402	36.781	1.00	67.61	8
ATOM	11689	N	GLN	C1068	64.379	55.851	38.065	1.00	43.61	7
ATOM	11690	CA	GLN	C1068	64.671	54.435	38.240	1.00	46.88	6
ATOM	11691	CB	GLN	C1068	65.991	54.064	37.565	1.00	108.79	6
ATOM	11692	CG	GLN	C1068	66.158	52.564	37.355	1.00	110.39	6
ATOM	11693	CD	GLN	C1068	67.334	52.221	36.458	1.00	112.30	6
ATOM	11694	OE1	GLN	C1068	68.490	52.474	36.806	1.00	113.10	8
ATOM	11695	NE2	GLN	C1068	67.044	51.648	35.292	1.00	112.89	7

ATOM	11696	C	GLN	C1068	64.710	54.046	39.708	1.00	48.56	6
ATOM	11697	O	GLN	C1068	64.021	53.124	40.126	1.00	48.70	8
ATOM	11698	N	ALA	C1069	65.508	54.750	40.498	1.00	65.14	7
ATOM	11699	CA	ALA	C1069	65.600	54.444	41.918	1.00	67.74	6
ATOM	11700	CB	ALA	C1069	66.426	55.497	42.624	1.00	132.45	6
ATOM	11701	C	ALA	C1069	64.220	54.356	42.562	1.00	69.46	6
ATOM	11702	O	ALA	C1069	64.072	53.772	43.640	1.00	70.12	8
ATOM	11703	N	ILE	C1070	63.219	54.944	41.901	1.00	60.17	7
ATOM	11704	CA	ILE	C1070	61.837	54.940	42.391	1.00	61.46	6
ATOM	11705	CB	ILE	C1070	61.097	56.264	42.055	1.00	86.63	6
ATOM	11706	CG2	ILE	C1070	59.612	56.117	42.328	1.00	86.27	6
ATOM	11707	CG1	ILE	C1070	61.634	57.413	42.915	1.00	86.82	6
ATOM	11708	CD1	ILE	C1070	63.080	57.786	42.663	1.00	87.50	6
ATOM	11709	C	ILE	C1070	61.101	53.788	41.734	1.00	62.66	6
ATOM	11710	O	ILE	C1070	60.550	52.927	42.414	1.00	62.18	8
ATOM	11711	N	ILE	C1071	61.104	53.779	40.405	1.00	97.42	7
ATOM	11712	CA	ILE	C1071	60.455	52.722	39.645	1.00	100.40	6
ATOM	11713	CB	ILE	C1071	60.830	52.798	38.144	1.00	191.02	6
ATOM	11714	CG2	ILE	C1071	60.548	51.477	37.457	1.00	190.29	6
ATOM	11715	CG1	ILE	C1071	60.015	53.897	37.464	1.00	192.69	6
ATOM	11716	CD1	ILE	C1071	60.073	55.238	38.168	1.00	195.25	6
ATOM	11717	C	ILE	C1071	60.932	51.415	40.241	1.00	101.61	6
ATOM	11718	O	ILE	C1071	60.220	50.412	40.227	1.00	102.61	8
ATOM	11719	N	LYS	C1072	62.147	51.443	40.779	1.00	94.80	7
ATOM	11720	CA	LYS	C1072	62.712	50.269	41.410	1.00	96.43	6
ATOM	11721	CB	LYS	C1072	64.188	50.479	41.747	1.00	112.40	6
ATOM	11722	CG	LYS	C1072	65.154	50.269	40.588	1.00	113.75	6
ATOM	11723	CD	LYS	C1072	66.592	50.345	41.091	1.00	113.38	6
ATOM	11724	CE	LYS	C1072	67.602	50.149	39.977	1.00	113.27	6
ATOM	11725	NZ	LYS	C1072	68.993	50.337	40.481	1.00	112.40	7
ATOM	11726	C	LYS	C1072	61.933	50.021	42.686	1.00	97.49	6
ATOM	11727	O	LYS	C1072	60.939	49.295	42.678	1.00	98.64	8
ATOM	11728	N	GLY	C1073	62.368	50.631	43.782	1.00	108.77	7
ATOM	11729	CA	GLY	C1073	61.663	50.415	45.029	1.00	110.58	6
ATOM	11730	C	GLY	C1073	62.126	51.185	46.246	1.00	111.42	6
ATOM	11731	O	GLY	C1073	62.131	52.413	46.261	1.00	111.19	8
ATOM	11732	N	ALA	C1074	62.521	50.443	47.272	1.00	197.22	7
ATOM	11733	CA	ALA	C1074	62.950	51.018	48.538	1.00	199.58	6
ATOM	11734	CB	ALA	C1074	63.233	49.893	49.535	1.00	161.27	6
ATOM	11735	C	ALA	C1074	64.122	51.999	48.536	1.00	200.96	6
ATOM	11736	O	ALA	C1074	64.683	52.260	49.599	1.00	201.96	8
ATOM	11737	N	ASP	C1075	64.504	52.558	47.388	1.00	106.63	7
ATOM	11738	CA	ASP	C1075	65.621	53.504	47.413	1.00	106.82	6
ATOM	11739	CB	ASP	C1075	66.910	52.832	46.930	1.00	182.53	6
ATOM	11740	CG	ASP	C1075	68.151	53.417	47.594	1.00	183.78	6
ATOM	11741	OD1	ASP	C1075	68.332	54.653	47.540	1.00	184.11	8
ATOM	11742	OD2	ASP	C1075	68.944	52.642	48.173	1.00	184.82	8
ATOM	11743	C	ASP	C1075	65.397	54.805	46.649	1.00	105.85	6
ATOM	11744	O	ASP	C1075	64.748	54.828	45.607	1.00	104.76	8
ATOM	11745	N	VAL	C1076	65.954	55.888	47.186	1.00	64.03	7
ATOM	11746	CA	VAL	C1076	65.817	57.213	46.593	1.00	65.28	6
ATOM	11747	CB	VAL	C1076	65.431	58.225	47.671	1.00	191.41	6
ATOM	11748	CG1	VAL	C1076	63.923	58.256	47.825	1.00	192.81	6
ATOM	11749	CG2	VAL	C1076	66.087	57.840	48.994	1.00	192.40	6
ATOM	11750	C	VAL	C1076	67.070	57.714	45.872	1.00	65.50	6
ATOM	11751	O	VAL	C1076	68.178	57.284	46.176	1.00	65.51	8



ATOM	11752	N	PRO	C1077	66.902	58.647	44.917	1.00111.04	7
ATOM	11753	CD	PRO	C1077	65.573	59.247	44.689	1.00 70.63	6
ATOM	11754	CA	PRO	C1077	67.913	59.298	44.070	1.00111.78	6
ATOM	11755	CB	PRO	C1077	67.199	60.568	43.629	1.00 70.35	6
ATOM	11756	CG	PRO	C1077	65.788	60.092	43.455	1.00 70.28	6
ATOM	11757	C	PRO	C1077	69.266	59.600	44.720	1.00112.57	6
ATOM	11758	O	PRO	C1077	69.401	60.583	45.438	1.00113.94	8
ATOM	11759	N	GLU	C1078	70.271	58.774	44.447	1.00187.01	7
ATOM	11760	CA	GLU	C1078	71.597	58.981	45.029	1.00187.30	6
ATOM	11761	CB	GLU	C1078	72.207	57.636	45.458	1.00208.87	6
ATOM	11762	CG	GLU	C1078	71.522	56.942	46.631	1.00208.87	6
ATOM	11763	CD	GLU	C1078	72.300	55.732	47.123	1.00208.87	6
ATOM	11764	OE1	GLU	C1078	73.466	55.905	47.538	1.00208.87	8
ATOM	11765	OE2	GLU	C1078	71.751	54.609	47.090	1.00208.87	8
ATOM	11766	C	GLU	C1078	72.582	59.693	44.093	1.00186.18	6
ATOM	11767	O	GLU	C1078	73.208	59.052	43.249	1.00187.10	8
ATOM	11768	N	PRO	C1079	72.731	61.026	44.225	1.00130.53	7
ATOM	11769	CD	PRO	C1079	71.867	61.981	44.936	1.00103.91	6
ATOM	11770	CA	PRO	C1079	73.673	61.737	43.347	1.00129.47	6
ATOM	11771	CB	PRO	C1079	73.234	63.197	43.451	1.00103.50	6
ATOM	11772	CG	PRO	C1079	71.819	63.118	43.956	1.00103.40	6
ATOM	11773	C	PRO	C1079	75.096	61.557	43.851	1.00128.55	6
ATOM	11774	O	PRO	C1079	75.384	60.626	44.603	1.00128.85	8
ATOM	11775	N	SER	C1080	75.977	62.463	43.442	1.00111.85	7
ATOM	11776	CA	SER	C1080	77.379	62.436	43.853	1.00110.74	6
ATOM	11777	CB	SER	C1080	78.015	61.065	43.547	1.00111.30	6
ATOM	11778	OG	SER	C1080	77.944	60.727	42.169	1.00111.57	8
ATOM	11779	C	SER	C1080	78.114	63.548	43.113	1.00109.52	6
ATOM	11780	O	SER	C1080	78.454	64.585	43.688	1.00109.21	8
ATOM	11781	N	VAL	C1081	78.352	63.325	41.828	1.00103.22	7
ATOM	11782	CA	VAL	C1081	79.011	64.310	40.986	1.00101.81	6
ATOM	11783	CB	VAL	C1081	79.813	63.628	39.853	1.00208.87	6
ATOM	11784	CG1	VAL	C1081	80.636	64.657	39.101	1.00208.87	6
ATOM	11785	CG2	VAL	C1081	80.704	62.540	40.424	1.00208.87	6
ATOM	11786	C	VAL	C1081	77.879	65.129	40.364	1.00 99.68	6
ATOM	11787	O	VAL	C1081	76.917	64.577	39.835	1.00 99.10	8
ATOM	11788	N	PRO	C1082	77.951	66.456	40.458	1.00 54.33	7
ATOM	11789	CD	PRO	C1082	78.776	67.272	41.363	1.00200.29	6
ATOM	11790	CA	PRO	C1082	76.878	67.244	39.861	1.00 52.51	6
ATOM	11791	CB	PRO	C1082	76.885	68.513	40.699	1.00198.94	6
ATOM	11792	CG	PRO	C1082	78.331	68.671	41.026	1.00200.17	6
ATOM	11793	C	PRO	C1082	77.158	67.503	38.382	1.00 51.25	6
ATOM	11794	O	PRO	C1082	78.189	68.066	38.014	1.00 51.33	8
ATOM	11795	N	GLU	C1083	76.230	67.072	37.540	1.00 56.19	7
ATOM	11796	CA	GLU	C1083	76.328	67.242	36.097	1.00 55.63	6
ATOM	11797	CB	GLU	C1083	74.957	66.993	35.465	1.00190.05	6
ATOM	11798	CG	GLU	C1083	74.875	67.163	33.954	1.00192.19	6
ATOM	11799	CD	GLU	C1083	74.970	65.847	33.206	1.00193.81	6
ATOM	11800	OE1	GLU	C1083	74.245	64.896	33.570	1.00194.43	8
ATOM	11801	OE2	GLU	C1083	75.762	65.764	32.244	1.00194.82	8
ATOM	11802	C	GLU	C1083	76.809	68.639	35.719	1.00 53.58	6
ATOM	11803	O	GLU	C1083	77.360	68.841	34.643	1.00 53.37	8
ATOM	11804	N	SER	C1084	76.588	69.605	36.599	1.00 91.83	7
ATOM	11805	CA	SER	C1084	77.005	70.963	36.313	1.00 91.20	6
ATOM	11806	CB	SER	C1084	76.183	71.953	37.129	1.00 63.68	6
ATOM	11807	OG	SER	C1084	74.810	71.853	36.795	1.00 65.09	8

ATOM	11808	C	SER	C1084	78.479	71.168	36.593	1.00	90.21	6
ATOM	11809	O	SER	C1084	79.224	71.583	35.706	1.00	90.86	8
ATOM	11810	N	PHE	C1085	78.903	70.873	37.819	1.00	103.08	7
ATOM	11811	CA	PHE	C1085	80.304	71.045	38.209	1.00	100.39	6
ATOM	11812	CB	PHE	C1085	80.544	70.506	39.623	1.00	70.97	6
ATOM	11813	CG	PHE	C1085	81.844	70.954	40.245	1.00	71.55	6
ATOM	11814	CD1	PHE	C1085	82.457	72.134	39.849	1.00	71.72	6
ATOM	11815	CD2	PHE	C1085	82.427	70.213	41.270	1.00	72.44	6
ATOM	11816	CE1	PHE	C1085	83.629	72.563	40.466	1.00	71.44	6
ATOM	11817	CE2	PHE	C1085	83.597	70.637	41.890	1.00	71.86	6
ATOM	11818	CZ	PHE	C1085	84.197	71.811	41.489	1.00	71.39	6
ATOM	11819	C	PHE	C1085	81.195	70.314	37.234	1.00	98.75	6
ATOM	11820	O	PHE	C1085	82.272	70.796	36.894	1.00	100.33	8
ATOM	11821	N	ALA	C1086	80.729	69.154	36.782	1.00	37.35	7
ATOM	11822	CA	ALA	C1086	81.484	68.344	35.838	1.00	34.90	6
ATOM	11823	CB	ALA	C1086	80.845	66.966	35.714	1.00	13.87	6
ATOM	11824	C	ALA	C1086	81.615	69.002	34.454	1.00	33.37	6
ATOM	11825	O	ALA	C1086	82.555	68.729	33.708	1.00	34.08	8
ATOM	11826	N	VAL	C1087	80.690	69.885	34.108	1.00	36.24	7
ATOM	11827	CA	VAL	C1087	80.763	70.535	32.813	1.00	35.38	6
ATOM	11828	CB	VAL	C1087	79.392	70.536	32.122	1.00	46.83	6
ATOM	11829	CG1	VAL	C1087	79.498	71.144	30.741	1.00	46.97	6
ATOM	11830	CG2	VAL	C1087	78.877	69.122	32.026	1.00	47.66	6
ATOM	11831	C	VAL	C1087	81.282	71.958	32.930	1.00	34.55	6
ATOM	11832	O	VAL	C1087	81.422	72.652	31.929	1.00	33.81	8
ATOM	11833	N	LEU	C1088	81.570	72.406	34.145	1.00	98.32	7
ATOM	11834	CA	LEU	C1088	82.097	73.753	34.290	1.00	98.34	6
ATOM	11835	CB	LEU	C1088	81.884	74.307	35.699	1.00	20.30	6
ATOM	11836	CG	LEU	C1088	82.332	75.769	35.855	1.00	17.77	6
ATOM	11837	CD1	LEU	C1088	81.606	76.670	34.873	1.00	17.28	6
ATOM	11838	CD2	LEU	C1088	82.065	76.227	37.262	1.00	18.02	6
ATOM	11839	C	LEU	C1088	83.582	73.689	34.009	1.00	99.79	6
ATOM	11840	O	LEU	C1088	84.134	74.546	33.323	1.00	101.96	8
ATOM	11841	N	VAL	C1089	84.229	72.659	34.539	1.00	79.95	7
ATOM	11842	CA	VAL	C1089	85.655	72.507	34.336	1.00	80.12	6
ATOM	11843	CB	VAL	C1089	86.213	71.335	35.175	1.00	62.80	6
ATOM	11844	CG1	VAL	C1089	87.723	71.294	35.082	1.00	65.03	6
ATOM	11845	CG2	VAL	C1089	85.806	71.500	36.616	1.00	62.52	6
ATOM	11846	C	VAL	C1089	85.951	72.278	32.853	1.00	79.71	6
ATOM	11847	O	VAL	C1089	86.784	72.976	32.272	1.00	79.69	8
ATOM	11848	N	ALA	C1090	85.250	71.327	32.236	1.00	80.39	7
ATOM	11849	CA	ALA	C1090	85.479	71.010	30.827	1.00	80.44	6
ATOM	11850	CB	ALA	C1090	84.991	69.592	30.515	1.00	13.87	6
ATOM	11851	C	ALA	C1090	84.870	72.005	29.850	1.00	81.27	6
ATOM	11852	O	ALA	C1090	84.588	71.668	28.704	1.00	82.52	8
ATOM	11853	N	GLU	C1091	84.666	73.232	30.311	1.00	26.75	7
ATOM	11854	CA	GLU	C1091	84.126	74.305	29.469	1.00	28.33	6
ATOM	11855	CB	GLU	C1091	82.728	74.712	29.921	1.00	76.31	6
ATOM	11856	CG	GLU	C1091	81.608	74.061	29.146	1.00	77.14	6
ATOM	11857	CD	GLU	C1091	80.259	74.579	29.576	1.00	77.62	6
ATOM	11858	OE1	GLU	C1091	80.114	75.815	29.672	1.00	77.82	8
ATOM	11859	OE2	GLU	C1091	79.351	73.758	29.813	1.00	78.87	8
ATOM	11860	C	GLU	C1091	85.046	75.508	29.601	1.00	28.72	6
ATOM	11861	O	GLU	C1091	84.984	76.452	28.810	1.00	27.52	8
ATOM	11862	N	LEU	C1092	85.873	75.455	30.643	1.00	80.09	7
ATOM	11863	CA	LEU	C1092	86.862	76.477	30.961	1.00	82.54	6

ATOM	11864	CB	LEU	C1092	87.006	76.608	32.486	1.00	54.50	6
ATOM	11865	CG	LEU	C1092	85.982	77.409	33.314	1.00	53.94	6
ATOM	11866	CD1	LEU	C1092	85.982	76.931	34.770	1.00	52.07	6
ATOM	11867	CD2	LEU	C1092	86.313	78.902	33.235	1.00	54.02	6
ATOM	11868	C	LEU	C1092	88.173	75.989	30.342	1.00	84.64	6
ATOM	11869	O	LEU	C1092	89.037	76.784	29.962	1.00	85.41	8
ATOM	11870	N	GLN	C1093	88.300	74.666	30.244	1.00	69.69	7
ATOM	11871	CA	GLN	C1093	89.478	74.027	29.659	1.00	70.75	6
ATOM	11872	CB	GLN	C1093	89.419	72.507	29.858	1.00	73.27	6
ATOM	11873	CG	GLN	C1093	89.389	72.057	31.307	1.00	75.10	6
ATOM	11874	CD	GLN	C1093	89.788	70.603	31.471	1.00	76.28	6
ATOM	11875	OE1	GLN	C1093	89.255	69.723	30.801	1.00	78.19	8
ATOM	11876	NE2	GLN	C1093	90.721	70.343	32.375	1.00	77.68	7
ATOM	11877	C	GLN	C1093	89.535	74.336	28.164	1.00	71.47	6
ATOM	11878	O	GLN	C1093	90.607	74.397	27.555	1.00	71.73	8
ATOM	11879	N	ALA	C1094	88.359	74.514	27.579	1.00	80.43	7
ATOM	11880	CA	ALA	C1094	88.272	74.821	26.168	1.00	81.50	6
ATOM	11881	CB	ALA	C1094	86.815	74.888	25.734	1.00	133.59	6
ATOM	11882	C	ALA	C1094	88.956	76.156	25.937	1.00	81.84	6
ATOM	11883	O	ALA	C1094	89.576	76.371	24.901	1.00	81.71	8
ATOM	11884	N	LEU	C1095	88.843	77.052	26.910	1.00	68.21	7
ATOM	11885	CA	LEU	C1095	89.458	78.362	26.795	1.00	69.70	6
ATOM	11886	CB	LEU	C1095	88.677	79.389	27.608	1.00	115.57	6
ATOM	11887	CG	LEU	C1095	87.746	80.297	26.801	1.00	115.82	6
ATOM	11888	CD1	LEU	C1095	86.714	79.464	26.081	1.00	115.43	6
ATOM	11889	CD2	LEU	C1095	87.074	81.305	27.729	1.00	117.08	6
ATOM	11890	C	LEU	C1095	90.904	78.307	27.265	1.00	70.83	6
ATOM	11891	O	LEU	C1095	91.561	79.335	27.443	1.00	71.86	8
ATOM	11892	N	ALA	C1096	91.394	77.090	27.460	1.00	118.71	7
ATOM	11893	CA	ALA	C1096	92.768	76.880	27.887	1.00	119.87	6
ATOM	11894	CB	ALA	C1096	93.721	77.602	26.936	1.00	94.68	6
ATOM	11895	C	ALA	C1096	93.011	77.340	29.319	1.00	120.32	6
ATOM	11896	O	ALA	C1096	93.966	78.068	29.589	1.00	120.38	8
ATOM	11897	N	LEU	C1097	92.153	76.911	30.237	1.00	50.53	7
ATOM	11898	CA	LEU	C1097	92.308	77.281	31.634	1.00	51.98	6
ATOM	11899	CB	LEU	C1097	91.129	78.148	32.082	1.00	68.25	6
ATOM	11900	CG	LEU	C1097	90.549	79.187	31.113	1.00	70.05	6
ATOM	11901	CD1	LEU	C1097	89.371	79.874	31.765	1.00	70.81	6
ATOM	11902	CD2	LEU	C1097	91.586	80.214	30.738	1.00	70.47	6
ATOM	11903	C	LEU	C1097	92.333	75.991	32.434	1.00	52.35	6
ATOM	11904	O	LEU	C1097	91.460	75.151	32.259	1.00	53.22	8
ATOM	11905	N	ASP	C1098	93.330	75.806	33.291	1.00	110.12	7
ATOM	11906	CA	ASP	C1098	93.369	74.591	34.097	1.00	110.77	6
ATOM	11907	CB	ASP	C1098	94.808	74.174	34.418	1.00	134.82	6
ATOM	11908	CG	ASP	C1098	94.885	72.805	35.100	1.00	136.59	6
ATOM	11909	OD1	ASP	C1098	94.194	72.603	36.120	1.00	137.99	8
ATOM	11910	OD2	ASP	C1098	95.637	71.929	34.618	1.00	137.11	8
ATOM	11911	C	ASP	C1098	92.618	74.887	35.389	1.00	109.91	6
ATOM	11912	O	ASP	C1098	92.992	75.794	36.137	1.00	110.36	8
ATOM	11913	N	VAL	C1099	91.554	74.132	35.647	1.00	34.21	7
ATOM	11914	CA	VAL	C1099	90.763	74.347	36.848	1.00	33.94	6
ATOM	11915	CB	VAL	C1099	89.252	74.325	36.530	1.00	110.48	6
ATOM	11916	CG1	VAL	C1099	88.458	74.607	37.780	1.00	111.53	6
ATOM	11917	CG2	VAL	C1099	88.925	75.361	35.470	1.00	110.23	6
ATOM	11918	C	VAL	C1099	91.083	73.258	37.853	1.00	34.64	6
ATOM	11919	O	VAL	C1099	90.225	72.460	38.225	1.00	35.09	8

ATOM	11920	N	GLN	C1100	92.332	73.227	38.293	1.00	47.29	7
ATOM	11921	CA	GLN	C1100	92.741	72.219	39.253	1.00	48.51	6
ATOM	11922	CB	GLN	C1100	94.199	72.437	39.681	1.00208.87		6
ATOM	11923	CG	GLN	C1100	95.220	71.846	38.706	1.00208.87		6
ATOM	11924	CD	GLN	C1100	96.653	71.976	39.195	1.00208.87		6
ATOM	11925	OE1	GLN	C1100	96.973	71.603	40.325	1.00208.87		8
ATOM	11926	NE2	GLN	C1100	97.527	72.493	38.339	1.00208.87		7
ATOM	11927	C	GLN	C1100	91.823	72.217	40.462	1.00	47.63	6
ATOM	11928	O	GLN	C1100	91.685	73.213	41.158	1.00	47.48	8
ATOM	11929	N	THR	C1101	91.190	71.082	40.700	1.00	68.00	7
ATOM	11930	CA	THR	C1101	90.286	70.942	41.820	1.00	67.53	6
ATOM	11931	CB	THR	C1101	89.096	70.076	41.412	1.00	37.08	6
ATOM	11932	OG1	THR	C1101	88.482	70.651	40.250	1.00	37.01	8
ATOM	11933	CG2	THR	C1101	88.076	69.995	42.539	1.00	36.67	6
ATOM	11934	C	THR	C1101	91.028	70.307	42.991	1.00	67.60	6
ATOM	11935	O	THR	C1101	91.610	69.240	42.850	1.00	68.10	8
ATOM	11936	N	ALA	C1102	91.016	70.972	44.143	1.00	69.32	7
ATOM	11937	CA	ALA	C1102	91.705	70.460	45.326	1.00	69.08	6
ATOM	11938	CB	ALA	C1102	92.779	71.461	45.768	1.00	31.96	6
ATOM	11939	C	ALA	C1102	90.766	70.132	46.500	1.00	68.74	6
ATOM	11940	O	ALA	C1102	89.731	70.779	46.698	1.00	67.72	8
ATOM	11941	N	ASP	C1103	91.150	69.115	47.270	1.00	77.27	7
ATOM	11942	CA	ASP	C1103	90.382	68.660	48.421	1.00	77.46	6
ATOM	11943	CB	ASP	C1103	90.421	67.136	48.507	1.00132.50		6
ATOM	11944	CG	ASP	C1103	90.062	66.474	47.196	1.00133.78		6
ATOM	11945	OD1	ASP	C1103	88.950	66.734	46.690	1.00133.76		8
ATOM	11946	OD2	ASP	C1103	90.892	65.697	46.671	1.00135.67		8
ATOM	11947	C	ASP	C1103	90.928	69.243	49.715	1.00	77.10	6
ATOM	11948	O	ASP	C1103	92.027	69.783	49.747	1.00	77.24	8
ATOM	11949	N	GLU	C1104	90.140	69.120	50.776	1.00	42.97	7
ATOM	11950	CA	GLU	C1104	90.485	69.617	52.102	1.00	43.55	6
ATOM	11951	CB	GLU	C1104	90.324	68.490	53.128	1.00	98.33	6
ATOM	11952	CG	GLU	C1104	88.952	67.824	53.117	1.00	99.43	6
ATOM	11953	CD	GLU	C1104	89.004	66.358	53.521	1.00	99.94	6
ATOM	11954	OE1	GLU	C1104	89.445	66.060	54.652	1.00	99.93	8
ATOM	11955	OE2	GLU	C1104	88.602	65.502	52.699	1.00100.38		8
ATOM	11956	C	GLU	C1104	91.900	70.158	52.174	1.00	44.00	6
ATOM	11957	O	GLU	C1104	92.115	71.361	52.119	1.00	43.19	8
ATOM	11958	N	ALA	C1105	92.858	69.242	52.267	1.00	86.07	7
ATOM	11959	CA	ALA	C1105	94.272	69.570	52.388	1.00	88.23	6
ATOM	11960	CB	ALA	C1105	95.068	68.291	52.644	1.00	96.16	6
ATOM	11961	C	ALA	C1105	94.911	70.352	51.242	1.00	89.73	6
ATOM	11962	O	ALA	C1105	96.135	70.408	51.153	1.00	90.32	8
ATOM	11963	N	ASP	C1106	94.099	70.947	50.373	1.00	86.54	7
ATOM	11964	CA	ASP	C1106	94.603	71.743	49.246	1.00	88.53	6
ATOM	11965	CB	ASP	C1106	95.490	72.881	49.763	1.00102.54		6
ATOM	11966	CG	ASP	C1106	95.689	73.985	48.738	1.00104.21		6
ATOM	11967	OD1	ASP	C1106	95.933	73.683	47.548	1.00104.19		8
ATOM	11968	OD2	ASP	C1106	95.608	75.165	49.135	1.00105.52		8
ATOM	11969	C	ASP	C1106	95.393	70.930	48.226	1.00	89.27	6
ATOM	11970	O	ASP	C1106	95.259	71.115	47.022	1.00	89.36	8
ATOM	11971	N	ASN	C1107	96.223	70.029	48.725	1.00	70.86	7
ATOM	11972	CA	ASN	C1107	97.051	69.192	47.875	1.00	72.87	6
ATOM	11973	CB	ASN	C1107	98.479	69.145	48.443	1.00208.73		6
ATOM	11974	CG	ASN	C1107	99.510	68.690	47.421	1.00208.87		6
ATOM	11975	OD1	ASN	C1107	99.637	67.500	47.131	1.00208.87		8

ATOM	11976	ND2	ASN	C1107	100.252	69.644	46.867	1.00208.87	7
ATOM	11977	C	ASN	C1107	96.506	67.770	47.684	1.00 74.17	6
ATOM	11978	O	ASN	C1107	97.271	66.835	47.437	1.00 73.99	8
ATOM	11979	N	PRO	C1108	95.185	67.574	47.852	1.00193.02	7
ATOM	11980	CD	PRO	C1108	94.241	68.298	48.713	1.00135.94	6
ATOM	11981	CA	PRO	C1108	94.694	66.211	47.643	1.00193.97	6
ATOM	11982	CB	PRO	C1108	93.555	66.082	48.658	1.00135.66	6
ATOM	11983	CG	PRO	C1108	93.788	67.206	49.627	1.00136.16	6
ATOM	11984	C	PRO	C1108	94.168	66.195	46.215	1.00194.79	6
ATOM	11985	O	PRO	C1108	93.570	65.218	45.772	1.00196.01	8
ATOM	11986	N	VAL	C1109	94.404	67.310	45.523	1.00 53.75	7
ATOM	11987	CA	VAL	C1109	93.978	67.531	44.149	1.00 53.98	6
ATOM	11988	CB	VAL	C1109	95.182	67.519	43.174	1.00138.02	6
ATOM	11989	CG1	VAL	C1109	95.920	66.201	43.266	1.00138.58	6
ATOM	11990	CG2	VAL	C1109	94.704	67.771	41.751	1.00138.25	6
ATOM	11991	C	VAL	C1109	92.928	66.530	43.689	1.00 54.50	6
ATOM	11992	O	VAL	C1109	93.217	65.357	43.465	1.00 54.78	8
ATOM	11993	N	ALA	C1110	91.698	67.016	43.561	1.00156.36	7
ATOM	11994	CA	ALA	C1110	90.553	66.221	43.135	1.00156.93	6
ATOM	11995	CB	ALA	C1110	89.468	67.132	42.642	1.00 33.55	6
ATOM	11996	C	ALA	C1110	90.858	65.197	42.061	1.00157.67	6
ATOM	11997	O	ALA	C1110	91.844	65.307	41.334	1.00158.25	8
ATOM	11998	N	VAL	C1111	89.983	64.206	41.959	1.00134.81	7
ATOM	11999	CA	VAL	C1111	90.130	63.154	40.967	1.00135.66	6
ATOM	12000	CB	VAL	C1111	90.197	61.762	41.639	1.00184.71	6
ATOM	12001	CG1	VAL	C1111	90.488	60.684	40.600	1.00185.47	6
ATOM	12002	CG2	VAL	C1111	91.278	61.765	42.712	1.00184.30	6
ATOM	12003	C	VAL	C1111	88.936	63.219	40.021	1.00136.00	6
ATOM	12004	O	VAL	C1111	88.652	62.273	39.286	1.00136.25	8
ATOM	12005	N	PHE	C1112	88.248	64.357	40.042	1.00208.87	7
ATOM	12006	CA	PHE	C1112	87.077	64.584	39.198	1.00208.87	6
ATOM	12007	CB	PHE	C1112	86.715	66.066	39.199	1.00108.43	6
ATOM	12008	CG	PHE	C1112	85.570	66.397	40.084	1.00109.00	6
ATOM	12009	CD1	PHE	C1112	85.651	66.184	41.452	1.00108.81	6
ATOM	12010	CD2	PHE	C1112	84.395	66.901	39.548	1.00109.81	6
ATOM	12011	CE1	PHE	C1112	84.569	66.465	42.281	1.00109.57	6
ATOM	12012	CE2	PHE	C1112	83.306	67.185	40.364	1.00110.53	6
ATOM	12013	CZ	PHE	C1112	83.392	66.967	41.736	1.00110.35	6
ATOM	12014	C	PHE	C1112	87.214	64.119	37.758	1.00208.87	6
ATOM	12015	O	PHE	C1112	88.323	63.986	37.232	1.00208.87	8
ATOM	12016	N	GLU	C1113	86.066	63.890	37.126	1.00148.57	7
ATOM	12017	CA	GLU	C1113	86.011	63.437	35.744	1.00147.45	6
ATOM	12018	CB	GLU	C1113	86.270	64.612	34.795	1.00 68.95	6
ATOM	12019	CG	GLU	C1113	85.067	65.521	34.634	1.00 66.74	6
ATOM	12020	CD	GLU	C1113	85.388	66.774	33.864	1.00 67.07	6
ATOM	12021	OE1	GLU	C1113	85.761	66.675	32.674	1.00 68.90	8
ATOM	12022	OE2	GLU	C1113	85.272	67.865	34.458	1.00 66.89	8
ATOM	12023	C	GLU	C1113	86.966	62.283	35.459	1.00147.59	6
ATOM	12024	O	GLU	C1113	87.214	61.933	34.306	1.00147.97	8
ATOM	12025	N	GLY	C1114	87.502	61.696	36.523	1.00180.49	7
ATOM	12026	CA	GLY	C1114	88.386	60.561	36.364	1.00179.91	6
ATOM	12027	C	GLY	C1114	87.451	59.414	36.050	1.00179.79	6
ATOM	12028	O	GLY	C1114	87.791	58.242	36.202	1.00180.67	8
ATOM	12029	N	LEU	C1115	86.251	59.788	35.613	1.00166.38	7
ATOM	12030	CA	LEU	C1115	85.181	58.864	35.260	1.00165.01	6
ATOM	12031	CB	LEU	C1115	85.577	58.003	34.054	1.00 69.73	6

ATOM	12032	CG	LEU	C1115	86.075	58.719	32.790	1.00	68.63	6
ATOM	12033	CD1	LEU	C1115	85.550	57.976	31.573	1.00	67.50	6
ATOM	12034	CD2	LEU	C1115	85.604	60.162	32.749	1.00	68.11	6
ATOM	12035	C	LEU	C1115	84.822	57.971	36.438	1.00	65.21	6
ATOM	12036	O	LEU	C1115	83.697	58.111	36.959	1.00	65.67	8
ATOM	12037	OXT	LEU	C1115	85.673	57.151	36.834	1.00	71.04	8
ATOM	12038	CB	LYS	D 3	88.513	62.331	48.194	1.00	118.47	6
ATOM	12039	CG	LYS	D 3	89.024	63.117	49.388	1.00	119.73	6
ATOM	12040	CD	LYS	D 3	90.540	63.004	49.475	1.00	120.29	6
ATOM	12041	CE	LYS	D 3	91.089	63.665	50.730	1.00	121.57	6
ATOM	12042	NZ	LYS	D 3	92.578	63.555	50.820	1.00	121.53	7
ATOM	12043	C	LYS	D 3	86.420	63.574	47.574	1.00	65.05	6
ATOM	12044	O	LYS	D 3	86.688	63.995	46.452	1.00	65.91	8
ATOM	12045	N	LYS	D 3	86.624	61.180	47.108	1.00	63.59	7
ATOM	12046	CA	LYS	D 3	86.990	62.249	48.074	1.00	64.77	6
ATOM	12047	N	ALA	D 4	85.627	64.228	48.411	1.00	63.09	7
ATOM	12048	CA	ALA	D 4	84.999	65.494	48.043	1.00	62.71	6
ATOM	12049	CB	ALA	D 4	83.970	65.899	49.098	1.00	171.20	6
ATOM	12050	C	ALA	D 4	86.019	66.588	47.887	1.00	62.16	6
ATOM	12051	O	ALA	D 4	87.126	66.492	48.405	1.00	60.59	8
ATOM	12052	N	VAL	D 5	85.630	67.635	47.174	1.00	88.37	7
ATOM	12053	CA	VAL	D 5	86.504	68.771	46.958	1.00	88.36	6
ATOM	12054	CB	VAL	D 5	86.353	69.327	45.523	1.00	97.05	6
ATOM	12055	CG1	VAL	D 5	86.047	68.195	44.564	1.00	98.63	6
ATOM	12056	CG2	VAL	D 5	85.267	70.376	45.467	1.00	96.87	6
ATOM	12057	C	VAL	D 5	86.123	69.854	47.967	1.00	87.93	6
ATOM	12058	O	VAL	D 5	85.135	69.723	48.693	1.00	89.18	8
ATOM	12059	N	ARG	D 6	86.916	70.919	48.016	1.00	73.00	7
ATOM	12060	CA	ARG	D 6	86.656	72.029	48.927	1.00	72.03	6
ATOM	12061	CB	ARG	D 6	87.532	71.919	50.170	1.00	108.72	6
ATOM	12062	CG	ARG	D 6	87.374	70.629	50.944	1.00	110.80	6
ATOM	12063	CD	ARG	D 6	86.008	70.481	51.594	1.00	111.86	6
ATOM	12064	NE	ARG	D 6	86.035	69.364	52.530	1.00	113.64	7
ATOM	12065	CZ	ARG	D 6	85.008	68.984	53.275	1.00	115.19	6
ATOM	12066	NH1	ARG	D 6	83.856	69.633	53.194	1.00	116.42	7
ATOM	12067	NH2	ARG	D 6	85.141	67.961	54.109	1.00	115.84	7
ATOM	12068	C	ARG	D 6	86.971	73.331	48.216	1.00	70.72	6
ATOM	12069	O	ARG	D 6	86.745	74.416	48.751	1.00	70.74	8
ATOM	12070	N	ALA	D 7	87.499	73.211	47.006	1.00	72.80	7
ATOM	12071	CA	ALA	D 7	87.850	74.375	46.221	1.00	71.37	6
ATOM	12072	CB	ALA	D 7	89.278	74.779	46.512	1.00	49.57	6
ATOM	12073	C	ALA	D 7	87.687	74.065	44.748	1.00	70.55	6
ATOM	12074	O	ALA	D 7	87.147	73.022	44.379	1.00	71.42	8
ATOM	12075	N	VAL	D 8	88.147	74.988	43.913	1.00	41.62	7
ATOM	12076	CA	VAL	D 8	88.076	74.824	42.473	1.00	39.89	6
ATOM	12077	CB	VAL	D 8	86.912	75.617	41.870	1.00	59.38	6
ATOM	12078	CG1	VAL	D 8	86.998	75.615	40.369	1.00	58.63	6
ATOM	12079	CG2	VAL	D 8	85.607	74.980	42.279	1.00	60.49	6
ATOM	12080	C	VAL	D 8	89.383	75.323	41.908	1.00	39.57	6
ATOM	12081	O	VAL	D 8	90.024	74.633	41.119	1.00	39.83	8
ATOM	12082	N	ALA	D 9	89.773	76.527	42.317	1.00	41.52	7
ATOM	12083	CA	ALA	D 9	91.031	77.126	41.880	1.00	41.38	6
ATOM	12084	CB	ALA	D 9	92.188	76.489	42.640	1.00	116.73	6
ATOM	12085	C	ALA	D 9	91.325	77.086	40.376	1.00	41.12	6
ATOM	12086	O	ALA	D 9	91.858	76.100	39.852	1.00	40.67	8
ATOM	12087	N	ILE	D 10	90.979	78.175	39.695	1.00	55.36	7

ATOM	12088	CA	ILE	D	10	91.232	78.315	38.265	1.00	55.98	6
ATOM	12089	CB	ILE	D	10	90.593	79.618	37.711	1.00	52.97	6
ATOM	12090	CG2	ILE	D	10	91.315	80.825	38.284	1.00	53.12	6
ATOM	12091	CG1	ILE	D	10	90.667	79.658	36.182	1.00	52.23	6
ATOM	12092	CD1	ILE	D	10	89.941	78.530	35.503	1.00	52.81	6
ATOM	12093	C	ILE	D	10	92.752	78.410	38.148	1.00	57.26	6
ATOM	12094	O	ILE	D	10	93.466	78.331	39.147	1.00	58.01	8
ATOM	12095	N	ALA	D	11	93.259	78.597	36.942	1.00	59.14	7
ATOM	12096	CA	ALA	D	11	94.696	78.681	36.782	1.00	60.37	6
ATOM	12097	CB	ALA	D	11	95.339	77.364	37.208	1.00	149.08	6
ATOM	12098	C	ALA	D	11	95.075	79.000	35.351	1.00	61.39	6
ATOM	12099	O	ALA	D	11	94.424	79.818	34.693	1.00	60.91	8
ATOM	12100	N	LEU	D	12	96.134	78.343	34.881	1.00	99.18	7
ATOM	12101	CA	LEU	D	12	96.629	78.540	33.530	1.00	99.22	6
ATOM	12102	CB	LEU	D	12	97.747	79.569	33.546	1.00	45.78	6
ATOM	12103	CG	LEU	D	12	97.829	80.343	32.238	1.00	45.71	6
ATOM	12104	CD1	LEU	D	12	96.456	80.845	31.783	1.00	45.35	6
ATOM	12105	CD2	LEU	D	12	98.767	81.492	32.463	1.00	46.63	6
ATOM	12106	C	LEU	D	12	97.119	77.221	32.939	1.00	99.44	6
ATOM	12107	O	LEU	D	12	97.801	76.445	33.614	1.00	99.97	8
ATOM	12108	N	ALA	D	13	96.773	76.984	31.673	1.00	88.25	7
ATOM	12109	CA	ALA	D	13	97.125	75.740	30.989	1.00	88.08	6
ATOM	12110	CB	ALA	D	13	95.862	75.096	30.431	1.00	145.76	6
ATOM	12111	C	ALA	D	13	98.177	75.838	29.886	1.00	87.96	6
ATOM	12112	O	ALA	D	13	97.905	76.324	28.785	1.00	87.79	8
ATOM	12113	N	SER	D	14	99.373	75.341	30.194	1.00	80.98	7
ATOM	12114	CA	SER	D	14	100.496	75.339	29.266	1.00	81.06	6
ATOM	12115	CB	SER	D	14	101.688	74.592	29.883	1.00	83.26	6
ATOM	12116	OG	SER	D	14	101.903	74.936	31.246	1.00	85.20	8
ATOM	12117	C	SER	D	14	100.054	74.615	28.002	1.00	81.18	6
ATOM	12118	O	SER	D	14	99.109	73.829	28.032	1.00	81.33	8
ATOM	12119	N	PRO	D	15	100.731	74.865	26.869	1.00	82.84	7
ATOM	12120	CD	PRO	D	15	102.017	75.557	26.673	1.00	117.32	6
ATOM	12121	CA	PRO	D	15	100.323	74.172	25.645	1.00	82.29	6
ATOM	12122	CB	PRO	D	15	101.270	74.739	24.600	1.00	116.72	6
ATOM	12123	CG	PRO	D	15	102.531	74.920	25.395	1.00	117.28	6
ATOM	12124	C	PRO	D	15	100.555	72.695	25.893	1.00	81.74	6
ATOM	12125	O	PRO	D	15	99.982	71.840	25.232	1.00	82.23	8
ATOM	12126	N	ALA	D	16	101.416	72.420	26.865	1.00	74.76	7
ATOM	12127	CA	ALA	D	16	101.736	71.060	27.251	1.00	74.09	6
ATOM	12128	CB	ALA	D	16	103.043	71.029	28.043	1.00	76.33	6
ATOM	12129	C	ALA	D	16	100.587	70.539	28.106	1.00	73.29	6
ATOM	12130	O	ALA	D	16	100.286	69.342	28.101	1.00	73.99	8
ATOM	12131	N	ALA	D	17	99.943	71.442	28.843	1.00	45.49	7
ATOM	12132	CA	ALA	D	17	98.827	71.043	29.693	1.00	43.80	6
ATOM	12133	CB	ALA	D	17	98.356	72.206	30.574	1.00	27.07	6
ATOM	12134	C	ALA	D	17	97.710	70.588	28.786	1.00	43.56	6
ATOM	12135	O	ALA	D	17	97.199	69.487	28.951	1.00	43.42	8
ATOM	12136	N	ILE	D	18	97.347	71.433	27.819	1.00	41.01	7
ATOM	12137	CA	ILE	D	18	96.284	71.117	26.865	1.00	42.69	6
ATOM	12138	CB	ILE	D	18	96.308	72.111	25.663	1.00	45.88	6
ATOM	12139	CG2	ILE	D	18	95.676	71.494	24.440	1.00	46.21	6
ATOM	12140	CG1	ILE	D	18	95.582	73.411	26.033	1.00	45.53	6
ATOM	12141	CD1	ILE	D	18	96.333	74.321	26.988	1.00	43.91	6
ATOM	12142	C	ILE	D	18	96.440	69.674	26.368	1.00	44.77	6
ATOM	12143	O	ILE	D	18	95.489	68.885	26.413	1.00	44.47	8

ATOM	12144	N	ARG	D	19	97.651	69.337	25.923	1.00	69.82	7
ATOM	12145	CA	ARG	D	19	97.964	68.002	25.417	1.00	72.40	6
ATOM	12146	CB	ARG	D	19	99.464	67.866	25.129	1.00	92.42	6
ATOM	12147	CG	ARG	D	19	100.022	68.906	24.162	1.00	91.60	6
ATOM	12148	CD	ARG	D	19	101.551	68.848	24.057	1.00	90.18	6
ATOM	12149	NE	ARG	D	19	102.100	70.047	23.422	1.00	89.74	7
ATOM	12150	CZ	ARG	D	19	101.877	70.402	22.159	1.00	90.69	6
ATOM	12151	NH1	ARG	D	19	101.116	69.647	21.377	1.00	91.13	7
ATOM	12152	NH2	ARG	D	19	102.400	71.526	21.678	1.00	91.04	7
ATOM	12153	C	ARG	D	19	97.573	66.973	26.452	1.00	75.35	6
ATOM	12154	O	ARG	D	19	97.132	65.881	26.106	1.00	76.51	8
ATOM	12155	N	ALA	D	20	97.735	67.333	27.723	1.00	82.12	7
ATOM	12156	CA	ALA	D	20	97.413	66.438	28.832	1.00	86.47	6
ATOM	12157	CB	ALA	D	20	97.652	67.145	30.167	1.00	86.23	6
ATOM	12158	C	ALA	D	20	95.988	65.896	28.771	1.00	89.87	6
ATOM	12159	O	ALA	D	20	95.790	64.681	28.654	1.00	89.90	8
ATOM	12160	N	TRP	D	21	95.001	66.790	28.849	1.00	96.75	7
ATOM	12161	CA	TRP	D	21	93.604	66.367	28.805	1.00	100.95	6
ATOM	12162	CB	TRP	D	21	92.665	67.406	29.431	1.00	153.88	6
ATOM	12163	CG	TRP	D	21	93.301	68.494	30.227	1.00	155.88	6
ATOM	12164	CD2	TRP	D	21	93.258	69.891	29.931	1.00	157.07	6
ATOM	12165	CE2	TRP	D	21	93.935	70.561	30.971	1.00	158.45	6
ATOM	12166	CE3	TRP	D	21	92.710	70.644	28.883	1.00	156.76	6
ATOM	12167	CD1	TRP	D	21	93.986	68.371	31.401	1.00	157.18	6
ATOM	12168	NE1	TRP	D	21	94.369	69.610	31.857	1.00	158.44	7
ATOM	12169	CZ2	TRP	D	21	94.078	71.952	30.996	1.00	159.35	6
ATOM	12170	CZ3	TRP	D	21	92.853	72.027	28.908	1.00	157.43	6
ATOM	12171	CH2	TRP	D	21	93.532	72.666	29.958	1.00	158.88	6
ATOM	12172	C	TRP	D	21	93.140	66.123	27.379	1.00	103.62	6
ATOM	12173	O	TRP	D	21	92.388	65.187	27.115	1.00	104.42	8
ATOM	12174	N	ALA	D	22	93.585	66.980	26.467	1.00	208.87	7
ATOM	12175	CA	ALA	D	22	93.211	66.885	25.063	1.00	208.87	6
ATOM	12176	CB	ALA	D	22	94.115	67.773	24.242	1.00	126.20	6
ATOM	12177	C	ALA	D	22	93.233	65.456	24.518	1.00	208.87	6
ATOM	12178	O	ALA	D	22	92.762	65.197	23.409	1.00	208.87	8
ATOM	12179	N	ALA	D	23	93.781	64.531	25.297	1.00	191.58	7
ATOM	12180	CA	ALA	D	23	93.847	63.132	24.897	1.00	193.09	6
ATOM	12181	CB	ALA	D	23	92.431	62.549	24.795	1.00	74.47	6
ATOM	12182	C	ALA	D	23	94.586	62.946	23.578	1.00	194.46	6
ATOM	12183	O	ALA	D	23	94.602	61.846	23.029	1.00	195.08	8
ATOM	12184	N	GLY	D	24	95.193	64.021	23.076	1.00	208.87	7
ATOM	12185	CA	GLY	D	24	95.935	63.960	21.824	1.00	208.87	6
ATOM	12186	C	GLY	D	24	95.422	62.924	20.842	1.00	208.87	6
ATOM	12187	O	GLY	D	24	96.177	62.076	20.355	1.00	208.87	8
ATOM	12188	N	ALA	D	25	94.129	62.997	20.546	1.00	208.87	7
ATOM	12189	CA	ALA	D	25	93.505	62.053	19.634	1.00	208.87	6
ATOM	12190	CB	ALA	D	25	92.338	61.368	20.326	1.00	128.06	6
ATOM	12191	C	ALA	D	25	93.025	62.712	18.352	1.00	208.87	6
ATOM	12192	O	ALA	D	25	92.908	62.054	17.318	1.00	208.87	8
ATOM	12193	N	ALA	D	26	92.747	64.009	18.419	1.00	180.25	7
ATOM	12194	CA	ALA	D	26	92.260	64.726	17.249	1.00	180.10	6
ATOM	12195	CB	ALA	D	26	90.986	65.473	17.587	1.00	89.62	6
ATOM	12196	C	ALA	D	26	93.264	65.694	16.664	1.00	180.34	6
ATOM	12197	O	ALA	D	26	93.477	66.777	17.206	1.00	180.69	8
ATOM	12198	N	GLU	D	27	93.877	65.305	15.551	1.00	208.87	7
ATOM	12199	CA	GLU	D	27	94.825	66.180	14.879	1.00	208.87	6



ATOM	12200	CB	GLU	D	27	95.582	65.432	13.777	1.00183.77	6
ATOM	12201	CG	GLU	D	27	96.682	66.265	13.127	1.00184.01	6
ATOM	12202	CD	GLU	D	27	97.155	65.703	11.798	1.00184.16	6
ATOM	12203	OE1	GLU	D	27	97.663	64.563	11.769	1.00184.40	8
ATOM	12204	OE2	GLU	D	27	97.016	66.411	10.777	1.00184.01	8
ATOM	12205	C	GLU	D	27	93.926	67.241	14.260	1.00208.87	6
ATOM	12206	O	GLU	D	27	94.363	68.064	13.452	1.00208.87	8
ATOM	12207	N	ALA	D	28	92.656	67.187	14.661	1.00139.10	7
ATOM	12208	CA	ALA	D	28	91.616	68.098	14.206	1.00138.27	6
ATOM	12209	CB	ALA	D	28	92.159	69.519	14.113	1.00192.29	6
ATOM	12210	C	ALA	D	28	91.076	67.649	12.859	1.00137.57	6
ATOM	12211	O	ALA	D	28	90.008	68.088	12.438	1.00137.17	8
ATOM	12212	N	ALA	D	29	91.822	66.767	12.197	1.00141.79	7
ATOM	12213	CA	ALA	D	29	91.445	66.241	10.889	1.00140.97	6
ATOM	12214	CB	ALA	D	29	92.200	64.940	10.619	1.00 83.12	6
ATOM	12215	C	ALA	D	29	89.939	66.014	10.771	1.00140.41	6
ATOM	12216	O	ALA	D	29	89.433	64.938	11.100	1.00140.48	8
ATOM	12217	N	ALA	D	30	89.228	67.038	10.301	1.00111.24	7
ATOM	12218	CA	ALA	D	30	87.780	66.963	10.136	1.00110.84	6
ATOM	12219	CB	ALA	D	30	87.103	66.857	11.496	1.00123.74	6
ATOM	12220	C	ALA	D	30	87.212	68.153	9.370	1.00110.87	6
ATOM	12221	O	ALA	D	30	87.906	69.136	9.108	1.00110.89	8
ATOM	12222	N	ALA	D	31	85.936	68.051	9.018	1.00177.41	7
ATOM	12223	CA	ALA	D	31	85.248	69.102	8.283	1.00177.79	6
ATOM	12224	CB	ALA	D	31	85.386	68.870	6.785	1.00208.87	6
ATOM	12225	C	ALA	D	31	83.779	69.110	8.677	1.00178.04	6
ATOM	12226	O	ALA	D	31	83.409	68.308	9.560	1.00177.79	8
ATOM	12227	OXT	ALA	D	31	83.019	69.916	8.102	1.00208.87	8
ATOM	12228	CB	ALA	E	69	80.302	61.345	2.995	1.00182.41	6
ATOM	12229	C	ALA	E	69	79.572	61.683	5.364	1.00208.52	6
ATOM	12230	O	ALA	E	69	78.367	61.590	5.600	1.00208.79	8
ATOM	12231	N	ALA	E	69	79.514	59.422	4.332	1.00208.62	7
ATOM	12232	CA	ALA	E	69	80.245	60.721	4.389	1.00208.78	6
ATOM	12233	N	ALA	E	70	80.368	62.594	5.927	1.00208.87	7
ATOM	12234	CA	ALA	E	70	79.908	63.616	6.875	1.00208.87	6
ATOM	12235	CB	ALA	E	70	78.485	64.075	6.521	1.00107.45	6
ATOM	12236	C	ALA	E	70	79.978	63.222	8.354	1.00208.87	6
ATOM	12237	O	ALA	E	70	80.018	64.093	9.224	1.00208.87	8
ATOM	12238	N	ALA	E	71	79.995	61.923	8.646	1.00143.28	7
ATOM	12239	CA	ALA	E	71	80.070	61.471	10.035	1.00141.93	6
ATOM	12240	CB	ALA	E	71	79.653	60.015	10.143	1.00107.52	6
ATOM	12241	C	ALA	E	71	81.487	61.646	10.553	1.00141.34	6
ATOM	12242	O	ALA	E	71	81.786	61.303	11.695	1.00141.79	8
ATOM	12243	N	ALA	E	72	82.353	62.164	9.685	1.00 64.01	7
ATOM	12244	CA	ALA	E	72	83.751	62.429	10.004	1.00 63.37	6
ATOM	12245	CB	ALA	E	72	83.839	63.257	11.280	1.00143.16	6
ATOM	12246	C	ALA	E	72	84.698	61.229	10.108	1.00 63.18	6
ATOM	12247	O	ALA	E	72	84.348	60.154	10.601	1.00 62.80	8
ATOM	12248	N	ALA	E	73	85.915	61.453	9.628	1.00142.28	7
ATOM	12249	CA	ALA	E	73	86.979	60.463	9.659	1.00142.92	6
ATOM	12250	CB	ALA	E	73	87.570	60.284	8.267	1.00109.50	6
ATOM	12251	C	ALA	E	73	88.011	61.064	10.603	1.00143.50	6
ATOM	12252	O	ALA	E	73	88.364	62.238	10.468	1.00144.20	8
ATOM	12253	N	ALA	E	74	88.497	60.275	11.557	1.00 97.91	7
ATOM	12254	CA	ALA	E	74	89.461	60.793	12.523	1.00 98.24	6
ATOM	12255	CB	ALA	E	74	90.786	61.098	11.839	1.00175.06	6

ATOM	12256	C	ALA	E	74	88.848	62.070	13.101	1.00	98.48	6
ATOM	12257	O	ALA	E	74	89.434	63.153	13.029	1.00	98.61	8
ATOM	12258	N	ALA	E	75	87.643	61.923	13.653	1.00172	.01	7
ATOM	12259	CA	ALA	E	75	86.902	63.032	14.249	1.00172	.44	6
ATOM	12260	CB	ALA	E	75	86.783	64.175	13.246	1.00	96.09	6
ATOM	12261	C	ALA	E	75	85.509	62.579	14.685	1.00172	.83	6
ATOM	12262	O	ALA	E	75	85.037	61.516	14.281	1.00172	.95	8
ATOM	12263	N	ALA	E	76	84.866	63.397	15.515	1.00	85.70	7
ATOM	12264	CA	ALA	E	76	83.520	63.136	16.019	1.00	85.45	6
ATOM	12265	CB	ALA	E	76	82.505	63.323	14.902	1.00203	.01	6
ATOM	12266	C	ALA	E	76	83.344	61.763	16.652	1.00	85.07	6
ATOM	12267	O	ALA	E	76	82.236	61.400	17.041	1.00	84.31	8
ATOM	12268	N	ALA	E	77	84.433	61.004	16.755	1.00121	.96	7
ATOM	12269	CA	ALA	E	77	84.394	59.664	17.341	1.00122	.45	6
ATOM	12270	CB	ALA	E	77	83.399	58.797	16.587	1.00143	.70	6
ATOM	12271	C	ALA	E	77	85.770	59.011	17.317	1.00122	.59	6
ATOM	12272	O	ALA	E	77	86.629	59.392	16.522	1.00122	.76	8
ATOM	12273	N	ALA	E	78	85.957	58.019	18.187	1.00143	.65	7
ATOM	12274	CA	ALA	E	78	87.214	57.286	18.314	1.00143	.63	6
ATOM	12275	CB	ALA	E	78	87.736	56.879	16.938	1.00174	.88	6
ATOM	12276	C	ALA	E	78	88.255	58.129	19.053	1.00143	.46	6
ATOM	12277	O	ALA	E	78	89.155	57.594	19.704	1.00143	.75	8
ATOM	12278	N	ALA	E	79	88.115	59.450	18.949	1.00120	.63	7
ATOM	12279	CA	ALA	E	79	89.011	60.405	19.607	1.00120	.05	6
ATOM	12280	CB	ALA	E	79	89.515	61.440	18.592	1.00107	.86	6
ATOM	12281	C	ALA	E	79	88.253	61.106	20.738	1.00119	.78	6
ATOM	12282	O	ALA	E	79	88.852	61.741	21.604	1.00119	.41	8
ATOM	12283	N	ALA	E	80	86.930	60.978	20.703	1.00149	.30	7
ATOM	12284	CA	ALA	E	80	86.030	61.572	21.685	1.00149	.38	6
ATOM	12285	CB	ALA	E	80	85.506	62.924	21.152	1.00	48.26	6
ATOM	12286	C	ALA	E	80	84.870	60.587	21.875	1.00149	.79	6
ATOM	12287	O	ALA	E	80	83.705	60.961	21.751	1.00150	.37	8
ATOM	12288	N	ALA	E	81	85.210	59.333	22.173	1.00175	.59	7
ATOM	12289	CA	ALA	E	81	84.242	58.248	22.355	1.00174	.88	6
ATOM	12290	CB	ALA	E	81	83.090	58.682	23.232	1.00102	.84	6
ATOM	12291	C	ALA	E	81	83.710	57.826	21.002	1.00174	.79	6
ATOM	12292	O	ALA	E	81	84.461	57.772	20.030	1.00175	.14	8
ATOM	12293	N	ALA	E	82	82.411	57.541	20.932	1.00208	.39	7
ATOM	12294	CA	ALA	E	82	81.819	57.143	19.662	1.00208	.06	6
ATOM	12295	CB	ALA	E	82	82.598	55.974	19.083	1.00140	.64	6
ATOM	12296	C	ALA	E	82	80.336	56.795	19.683	1.00207	.58	6
ATOM	12297	O	ALA	E	82	79.872	56.028	20.522	1.00206	.90	8
ATOM	12298	N	ALA	E	83	79.609	57.366	18.727	1.00128	.47	7
ATOM	12299	CA	ALA	E	83	78.181	57.123	18.526	1.00128	.25	6
ATOM	12300	CB	ALA	E	83	78.002	55.788	17.802	1.00139	.10	6
ATOM	12301	C	ALA	E	83	77.237	57.183	19.734	1.00128	.40	6
ATOM	12302	O	ALA	E	83	76.021	57.207	19.553	1.00128	.17	8
ATOM	12303	N	ALA	E	84	77.774	57.199	20.951	1.00208	.87	7
ATOM	12304	CA	ALA	E	84	76.942	57.266	22.152	1.00208	.87	6
ATOM	12305	CB	ALA	E	84	75.840	56.175	22.099	1.00	40.04	6
ATOM	12306	C	ALA	E	84	77.761	57.143	23.446	1.00208	.87	6
ATOM	12307	O	ALA	E	84	79.000	57.130	23.411	1.00208	.87	8
ATOM	12308	N	ALA	E	85	77.035	57.048	24.567	1.00144	.51	7
ATOM	12309	CA	ALA	E	85	77.561	56.942	25.941	1.00143	.76	6
ATOM	12310	CB	ALA	E	85	78.902	56.191	25.964	1.00135	.85	6
ATOM	12311	C	ALA	E	85	77.726	58.355	26.502	1.00143	.45	6

ATOM	12312	O	ALA	E	85	77.879	59.302	25.732	1.00143.42	8
ATOM	12313	N	ALA	E	86	77.675	58.495	27.827	1.00208.87	7
ATOM	12314	CA	ALA	E	86	77.817	59.792	28.498	1.00208.87	6
ATOM	12315	CB	ALA	E	86	78.391	59.596	29.899	1.00116.43	6
ATOM	12316	C	ALA	E	86	78.679	60.793	27.736	1.00208.87	6
ATOM	12317	O	ALA	E	86	78.210	61.463	26.816	1.00208.87	8
ATOM	12318	N	ALA	E	87	79.947	60.901	28.115	1.00117.66	7
ATOM	12319	CA	ALA	E	87	80.820	61.845	27.434	1.00115.28	6
ATOM	12320	CB	ALA	E	87	80.333	63.261	27.681	1.00199.23	6
ATOM	12321	C	ALA	E	87	82.277	61.719	27.842	1.00113.56	6
ATOM	12322	O	ALA	E	87	82.892	60.678	27.633	1.00113.09	8
ATOM	12323	N	ALA	E	88	82.820	62.781	28.432	1.00 77.12	7
ATOM	12324	CA	ALA	E	88	84.219	62.806	28.849	1.00 74.14	6
ATOM	12325	CB	ALA	E	88	84.552	61.595	29.713	1.00 49.92	6
ATOM	12326	C	ALA	E	88	85.060	62.795	27.584	1.00 72.75	6
ATOM	12327	O	ALA	E	88	84.512	62.787	26.486	1.00 72.56	8
ATOM	12328	N	ALA	E	89	86.380	62.807	27.741	1.00101.01	7
ATOM	12329	CA	ALA	E	89	87.295	62.813	26.603	1.00 99.71	6
ATOM	12330	CB	ALA	E	89	86.644	62.084	25.421	1.00 13.87	6
ATOM	12331	C	ALA	E	89	87.612	64.276	26.247	1.00 98.29	6
ATOM	12332	O	ALA	E	89	87.189	65.177	26.963	1.00 99.51	8
ATOM	12333	N	ALA	E	90	88.352	64.526	25.165	1.00 50.46	7
ATOM	12334	CA	ALA	E	90	88.661	65.904	24.771	1.00 46.80	6
ATOM	12335	CB	ALA	E	90	89.499	66.568	25.856	1.00 36.40	6
ATOM	12336	C	ALA	E	90	89.344	66.039	23.403	1.00 44.15	6
ATOM	12337	O	ALA	E	90	89.836	65.066	22.854	1.00 43.39	8
ATOM	12338	N	ALA	E	91	89.370	67.251	22.854	1.00 67.98	7
ATOM	12339	CA	ALA	E	91	89.980	67.489	21.544	1.00 66.57	6
ATOM	12340	CB	ALA	E	91	89.032	68.300	20.698	1.00 35.47	6
ATOM	12341	C	ALA	E	91	91.343	68.191	21.645	1.00 65.25	6
ATOM	12342	O	ALA	E	91	91.499	69.115	22.440	1.00 64.94	8
ATOM	12343	N	ALA	E	92	92.315	67.777	20.825	1.00 58.67	7
ATOM	12344	CA	ALA	E	92	93.670	68.348	20.887	1.00 57.66	6
ATOM	12345	CB	ALA	E	92	94.676	67.247	21.312	1.00 13.87	6
ATOM	12346	C	ALA	E	92	94.239	69.071	19.669	1.00 57.31	6
ATOM	12347	O	ALA	E	92	95.452	68.999	19.460	1.00 57.49	8
ATOM	12348	N	ALA	E	93	93.415	69.774	18.889	1.00 47.40	7
ATOM	12349	CA	ALA	E	93	93.925	70.479	17.697	1.00 46.65	6
ATOM	12350	CB	ALA	E	93	92.923	71.557	17.234	1.00 13.87	6
ATOM	12351	C	ALA	E	93	95.302	71.101	17.980	1.00 46.65	6
ATOM	12352	O	ALA	E	93	95.393	72.209	18.513	1.00 46.91	8
ATOM	12353	N	ALA	E	94	96.359	70.367	17.611	1.00 34.26	7
ATOM	12354	CA	ALA	E	94	97.763	70.756	17.844	1.00 35.14	6
ATOM	12355	CB	ALA	E	94	98.699	69.539	17.598	1.00 36.50	6
ATOM	12356	C	ALA	E	94	98.287	71.979	17.089	1.00 36.41	6
ATOM	12357	O	ALA	E	94	99.498	72.190	17.012	1.00 34.77	8
ATOM	12358	N	ALA	E	95	97.367	72.788	16.566	1.00101.08	7
ATOM	12359	CA	ALA	E	95	97.703	74.011	15.838	1.00104.48	6
ATOM	12360	CB	ALA	E	95	98.002	75.154	16.844	1.00 54.02	6
ATOM	12361	C	ALA	E	95	98.897	73.782	14.917	1.00106.91	6
ATOM	12362	O	ALA	E	95	99.141	72.653	14.491	1.00108.92	8
ATOM	12363	N	ALA	E	96	99.623	74.854	14.601	1.00105.52	7
ATOM	12364	CA	ALA	E	96	100.809	74.764	13.748	1.00107.06	6
ATOM	12365	CB	ALA	E	96	100.450	74.181	12.398	1.00 13.87	6
ATOM	12366	C	ALA	E	96	101.514	76.099	13.553	1.00108.62	6
ATOM	12367	O	ALA	E	96	101.116	76.910	12.715	1.00108.93	8

ATOM	12368	N	ALA	E	97	102.567	76.309	14.336	1.00128.48	7
ATOM	12369	CA	ALA	E	97	103.372	77.521	14.266	1.00129.82	6
ATOM	12370	CB	ALA	E	97	104.147	77.543	12.958	1.00134.57	6
ATOM	12371	C	ALA	E	97	102.559	78.802	14.406	1.00130.98	6
ATOM	12372	O	ALA	E	97	102.624	79.685	13.551	1.00130.80	8
ATOM	12373	N	ALA	E	98	101.802	78.907	15.493	1.00116.28	7
ATOM	12374	CA	ALA	E	98	100.989	80.091	15.727	1.00117.99	6
ATOM	12375	CB	ALA	E	98	99.826	80.113	14.752	1.00 87.41	6
ATOM	12376	C	ALA	E	98	100.481	80.186	17.164	1.00119.35	6
ATOM	12377	O	ALA	E	98	100.957	79.471	18.050	1.00119.68	8
ATOM	12378	N	ALA	E	99	99.517	81.081	17.381	1.00 92.06	7
ATOM	12379	CA	ALA	E	99	98.921	81.312	18.700	1.00 93.57	6
ATOM	12380	CB	ALA	E	99	99.965	81.858	19.655	1.00165.12	6
ATOM	12381	C	ALA	E	99	97.754	82.294	18.600	1.00 94.85	6
ATOM	12382	O	ALA	E	99	97.259	82.568	17.510	1.00 95.31	8
ATOM	12383	N	ALA	E	100	97.323	82.839	19.734	1.00113.85	7
ATOM	12384	CA	ALA	E	100	96.203	83.772	19.730	1.00114.80	6
ATOM	12385	CB	ALA	E	100	94.925	83.021	19.433	1.00 55.44	6
ATOM	12386	C	ALA	E	100	96.073	84.519	21.048	1.00115.99	6
ATOM	12387	O	ALA	E	100	95.838	83.916	22.095	1.00116.63	8
ATOM	12388	N	ALA	E	101	96.197	85.840	20.985	1.00208.87	7
ATOM	12389	CA	ALA	E	101	96.120	86.677	22.178	1.00208.87	6
ATOM	12390	CB	ALA	E	101	97.103	87.837	22.044	1.00152.73	6
ATOM	12391	C	ALA	E	101	94.726	87.215	22.520	1.00208.87	6
ATOM	12392	O	ALA	E	101	94.597	88.366	22.943	1.00208.87	8
ATOM	12393	N	ALA	E	102	93.690	86.394	22.352	1.00125.03	7
ATOM	12394	CA	ALA	E	102	92.326	86.833	22.657	1.00124.04	6
ATOM	12395	CB	ALA	E	102	91.348	86.225	21.670	1.00 79.18	6
ATOM	12396	C	ALA	E	102	91.963	86.424	24.076	1.00123.79	6
ATOM	12397	O	ALA	E	102	91.284	87.154	24.803	1.00123.54	8
ATOM	12398	N	ALA	E	103	92.427	85.242	24.459	1.00154.47	7
ATOM	12399	CA	ALA	E	103	92.178	84.717	25.787	1.00153.98	6
ATOM	12400	CB	ALA	E	103	92.455	83.211	25.802	1.00111.96	6
ATOM	12401	C	ALA	E	103	93.085	85.435	26.788	1.00153.34	6
ATOM	12402	O	ALA	E	103	93.701	84.783	27.634	1.00153.16	8
ATOM	12403	N	ALA	E	104	93.159	86.768	26.679	1.00 56.57	7
ATOM	12404	CA	ALA	E	104	93.991	87.622	27.547	1.00 55.34	6
ATOM	12405	CB	ALA	E	104	94.660	86.778	28.641	1.00 22.37	6
ATOM	12406	C	ALA	E	104	95.065	88.363	26.740	1.00 55.07	6
ATOM	12407	O	ALA	E	104	96.090	87.788	26.422	1.00 55.23	8
ATOM	12408	N	ALA	E	105	94.841	89.630	26.400	1.00115.74	7
ATOM	12409	CA	ALA	E	105	95.837	90.379	25.624	1.00114.78	6
ATOM	12410	CB	ALA	E	105	95.210	90.924	24.313	1.00 29.18	6
ATOM	12411	C	ALA	E	105	96.480	91.522	26.416	1.00113.87	6
ATOM	12412	O	ALA	E	105	97.668	91.810	26.256	1.00113.50	8
ATOM	12413	N	ALA	E	106	95.695	92.170	27.270	1.00136.29	7
ATOM	12414	CA	ALA	E	106	96.192	93.281	28.078	1.00135.70	6
ATOM	12415	CB	ALA	E	106	95.059	93.916	28.866	1.00139.76	6
ATOM	12416	C	ALA	E	106	97.267	92.804	29.028	1.00134.84	6
ATOM	12417	O	ALA	E	106	98.326	93.412	29.113	1.00135.36	8
ATOM	12418	N	ALA	E	107	96.989	91.727	29.754	1.00121.92	7
ATOM	12419	CA	ALA	E	107	97.972	91.191	30.681	1.00121.18	6
ATOM	12420	CB	ALA	E	107	97.578	89.775	31.122	1.00103.17	6
ATOM	12421	C	ALA	E	107	99.296	91.180	29.921	1.00120.64	6
ATOM	12422	O	ALA	E	107	100.343	91.551	30.457	1.00120.71	8
ATOM	12423	N	ALA	E	108	99.235	90.781	28.654	1.00 66.90	7

ATOM	12424	CA	ALA	E	108	100.422	90.746	27.811	1.00	66.00	6
ATOM	12425	CB	ALA	E	108	100.098	90.085	26.459	1.00	29.40	6
ATOM	12426	C	ALA	E	108	100.864	92.192	27.617	1.00	65.63	6
ATOM	12427	O	ALA	E	108	102.018	92.534	27.857	1.00	65.91	8
ATOM	12428	N	ALA	E	109	99.923	93.037	27.208	1.00	94.14	7
ATOM	12429	CA	ALA	E	109	100.189	94.455	26.982	1.00	94.04	6
ATOM	12430	CB	ALA	E	109	98.916	95.142	26.493	1.00	157.23	6
ATOM	12431	C	ALA	E	109	100.733	95.176	28.227	1.00	93.66	6
ATOM	12432	O	ALA	E	109	101.295	96.271	28.126	1.00	93.28	8
ATOM	12433	N	ALA	E	110	100.557	94.563	29.396	1.00	88.93	7
ATOM	12434	CA	ALA	E	110	101.036	95.142	30.647	1.00	87.68	6
ATOM	12435	CB	ALA	E	110	100.083	94.792	31.804	1.00	13.87	6
ATOM	12436	C	ALA	E	110	102.438	94.617	30.935	1.00	87.36	6
ATOM	12437	O	ALA	E	110	103.388	95.395	31.003	1.00	87.91	8
ATOM	12438	N	ALA	E	111	102.565	93.298	31.082	1.00	71.71	7
ATOM	12439	CA	ALA	E	111	103.855	92.667	31.363	1.00	72.01	6
ATOM	12440	CB	ALA	E	111	103.666	91.140	31.585	1.00	13.87	6
ATOM	12441	C	ALA	E	111	104.903	92.917	30.264	1.00	72.29	6
ATOM	12442	O	ALA	E	111	105.839	92.128	30.108	1.00	73.03	8
ATOM	12443	N	ALA	E	112	104.756	94.012	29.515	1.00	96.42	7
ATOM	12444	CA	ALA	E	112	105.695	94.347	28.440	1.00	95.42	6
ATOM	12445	CB	ALA	E	112	105.906	93.120	27.534	1.00	41.44	6
ATOM	12446	C	ALA	E	112	105.256	95.549	27.593	1.00	94.77	6
ATOM	12447	O	ALA	E	112	105.085	95.423	26.381	1.00	94.39	8
ATOM	12448	N	ALA	E	113	105.098	96.701	28.247	1.00	98.10	7
ATOM	12449	CA	ALA	E	113	104.679	97.981	27.644	1.00	98.34	6
ATOM	12450	CB	ALA	E	113	105.786	99.051	27.876	1.00	13.87	6
ATOM	12451	C	ALA	E	113	104.238	98.006	26.169	1.00	99.05	6
ATOM	12452	O	ALA	E	113	104.471	98.995	25.469	1.00	99.32	8
ATOM	12453	N	ALA	E	114	103.576	96.944	25.711	1.00	146.06	7
ATOM	12454	CA	ALA	E	114	103.117	96.853	24.323	1.00	146.52	6
ATOM	12455	CB	ALA	E	114	103.658	95.554	23.671	1.00	49.17	6
ATOM	12456	C	ALA	E	114	101.587	96.904	24.229	1.00	146.76	6
ATOM	12457	O	ALA	E	114	100.913	95.875	24.305	1.00	147.41	8
ATOM	12458	N	ALA	E	115	101.048	98.108	24.057	1.00	57.90	7
ATOM	12459	CA	ALA	E	115	99.601	98.305	23.959	1.00	56.95	6
ATOM	12460	CB	ALA	E	115	99.114	99.139	25.143	1.00	151.32	6
ATOM	12461	C	ALA	E	115	99.193	98.976	22.646	1.00	56.60	6
ATOM	12462	O	ALA	E	115	99.868	99.892	22.170	1.00	55.48	8
ATOM	12463	N	ALA	E	116	98.078	98.532	22.071	1.00	112.70	7
ATOM	12464	CA	ALA	E	116	97.609	99.083	20.803	1.00	113.68	6
ATOM	12465	CB	ALA	E	116	97.489	100.606	20.886	1.00	45.97	6
ATOM	12466	C	ALA	E	116	98.645	98.690	19.755	1.00	114.23	6
ATOM	12467	O	ALA	E	116	98.450	98.875	18.551	1.00	114.46	8
ATOM	12468	N	ALA	E	117	99.753	98.141	20.244	1.00	118.77	7
ATOM	12469	CA	ALA	E	117	100.852	97.691	19.408	1.00	118.20	6
ATOM	12470	CB	ALA	E	117	102.183	98.081	20.044	1.00	100.22	6
ATOM	12471	C	ALA	E	117	100.751	96.177	19.274	1.00	117.69	6
ATOM	12472	O	ALA	E	117	100.983	95.627	18.199	1.00	118.09	8
ATOM	12473	N	ALA	E	118	100.401	95.507	20.370	1.00	121.35	7
ATOM	12474	CA	ALA	E	118	100.255	94.054	20.360	1.00	120.31	6
ATOM	12475	CB	ALA	E	118	99.940	93.534	21.765	1.00	41.23	6
ATOM	12476	C	ALA	E	118	99.116	93.735	19.403	1.00	119.61	6
ATOM	12477	O	ALA	E	118	98.784	92.575	19.163	1.00	119.51	8
ATOM	12478	N	ALA	E	119	98.518	94.791	18.866	1.00	131.56	7
ATOM	12479	CA	ALA	E	119	97.438	94.658	17.910	1.00	130.77	6

ATOM	12480	CB	ALA	E	119	96.497	95.832	18.028	1.00	93.87	6
ATOM	12481	C	ALA	E	119	98.082	94.631	16.531	1.00	129.80	6
ATOM	12482	O	ALA	E	119	97.480	94.193	15.553	1.00	130.43	8
ATOM	12483	N	ALA	E	120	99.319	95.108	16.467	1.00	75.06	7
ATOM	12484	CA	ALA	E	120	100.072	95.135	15.222	1.00	72.98	6
ATOM	12485	CB	ALA	E	120	101.078	96.281	15.257	1.00	83.58	6
ATOM	12486	C	ALA	E	120	100.798	93.802	15.023	1.00	71.14	6
ATOM	12487	O	ALA	E	120	100.532	93.069	14.069	1.00	70.20	8
ATOM	12488	N	ALA	E	121	101.704	93.501	15.948	1.00	49.75	7
ATOM	12489	CA	ALA	E	121	102.511	92.280	15.924	1.00	49.46	6
ATOM	12490	CB	ALA	E	121	103.551	92.344	17.048	1.00	59.18	6
ATOM	12491	C	ALA	E	121	101.747	90.948	16.004	1.00	48.63	6
ATOM	12492	O	ALA	E	121	102.121	89.973	15.343	1.00	48.09	8
ATOM	12493	N	ALA	E	122	100.693	90.900	16.816	1.00	71.02	7
ATOM	12494	CA	ALA	E	122	99.915	89.676	16.974	1.00	70.10	6
ATOM	12495	CB	ALA	E	122	98.935	89.802	18.163	1.00	13.87	6
ATOM	12496	C	ALA	E	122	99.169	89.333	15.690	1.00	69.94	6
ATOM	12497	O	ALA	E	122	98.980	88.160	15.370	1.00	70.05	8
ATOM	12498	N	ALA	E	123	98.760	90.349	14.940	1.00	178.16	7
ATOM	12499	CA	ALA	E	123	98.043	90.097	13.696	1.00	178.21	6
ATOM	12500	CB	ALA	E	123	97.028	91.221	13.429	1.00	13.87	6
ATOM	12501	C	ALA	E	123	98.992	89.926	12.502	1.00	178.38	6
ATOM	12502	O	ALA	E	123	98.566	90.007	11.346	1.00	179.27	8
ATOM	12503	N	ALA	E	124	100.273	89.683	12.785	1.00	30.70	7
ATOM	12504	CA	ALA	E	124	101.266	89.480	11.734	1.00	29.80	6
ATOM	12505	CB	ALA	E	124	101.058	88.091	11.095	1.00	13.87	6
ATOM	12506	C	ALA	E	124	101.217	90.579	10.660	1.00	30.66	6
ATOM	12507	O	ALA	E	124	100.847	90.329	9.513	1.00	29.87	8
ATOM	12508	N	ALA	E	125	101.602	91.797	11.039	1.00	136.32	7
ATOM	12509	CA	ALA	E	125	101.581	92.914	10.098	1.00	137.92	6
ATOM	12510	CB	ALA	E	125	100.135	93.207	9.683	1.00	64.13	6
ATOM	12511	C	ALA	E	125	102.248	94.210	10.581	1.00	138.86	6
ATOM	12512	O	ALA	E	125	101.747	95.302	10.300	1.00	139.25	8
ATOM	12513	N	ALA	E	126	103.366	94.106	11.296	1.00	62.51	7
ATOM	12514	CA	ALA	E	126	104.057	95.301	11.767	1.00	62.97	6
ATOM	12515	CB	ALA	E	126	103.524	95.716	13.123	1.00	94.98	6
ATOM	12516	C	ALA	E	126	105.552	95.075	11.851	1.00	64.15	6
ATOM	12517	O	ALA	E	126	106.285	95.373	10.905	1.00	64.19	8
ATOM	12518	N	ALA	E	127	105.992	94.550	12.993	1.00	93.46	7
ATOM	12519	CA	ALA	E	127	107.404	94.270	13.257	1.00	94.94	6
ATOM	12520	CB	ALA	E	127	108.266	95.415	12.763	1.00	17.72	6
ATOM	12521	C	ALA	E	127	107.605	94.076	14.758	1.00	96.30	6
ATOM	12522	O	ALA	E	127	107.633	95.046	15.523	1.00	96.29	8
ATOM	12523	N	ALA	E	128	107.751	92.821	15.172	1.00	83.88	7
ATOM	12524	CA	ALA	E	128	107.920	92.495	16.584	1.00	85.18	6
ATOM	12525	CB	ALA	E	128	107.585	91.020	16.816	1.00	113.19	6
ATOM	12526	C	ALA	E	128	109.308	92.813	17.146	1.00	86.19	6
ATOM	12527	O	ALA	E	128	109.421	93.502	18.163	1.00	87.00	8
ATOM	12528	N	ALA	E	129	110.348	92.316	16.474	1.00	69.89	7
ATOM	12529	CA	ALA	E	129	111.746	92.495	16.883	1.00	71.80	6
ATOM	12530	CB	ALA	E	129	112.022	93.936	17.341	1.00	13.87	6
ATOM	12531	C	ALA	E	129	112.066	91.520	17.998	1.00	73.44	6
ATOM	12532	O	ALA	E	129	111.235	90.676	18.335	1.00	73.27	8
ATOM	12533	N	ALA	E	130	113.266	91.642	18.558	1.00	109.86	7
ATOM	12534	CA	ALA	E	130	113.737	90.786	19.645	1.00	112.83	6
ATOM	12535	CB	ALA	E	130	112.946	89.482	19.706	1.00	70.66	6

ATOM	12536	C	ALA	E	130	115.199	90.476	19.397	1.00115.36	6
ATOM	12537	O	ALA	E	130	115.932	90.093	20.312	1.00116.61	8
ATOM	12538	N	ALA	E	131	115.615	90.640	18.145	1.00208.87	7
ATOM	12539	CA	ALA	E	131	116.989	90.379	17.751	1.00208.87	6
ATOM	12540	CB	ALA	E	131	117.011	89.490	16.510	1.00139.43	6
ATOM	12541	C	ALA	E	131	117.724	91.692	17.485	1.00208.87	6
ATOM	12542	O	ALA	E	131	117.488	92.358	16.473	1.00208.87	8
ATOM	12543	N	ALA	E	132	118.608	92.060	18.407	1.00160.35	7
ATOM	12544	CA	ALA	E	132	119.386	93.289	18.292	1.00161.39	6
ATOM	12545	CB	ALA	E	132	120.470	93.311	19.364	1.00126.25	6
ATOM	12546	C	ALA	E	132	120.012	93.407	16.905	1.00162.45	6
ATOM	12547	O	ALA	E	132	120.064	92.430	16.159	1.00162.81	8
ATOM	12548	N	ALA	E	133	120.489	94.600	16.557	1.00148.54	7
ATOM	12549	CA	ALA	E	133	121.100	94.798	15.244	1.00149.35	6
ATOM	12550	CB	ALA	E	133	120.035	94.653	14.159	1.00137.78	6
ATOM	12551	C	ALA	E	133	121.850	96.122	15.071	1.00149.95	6
ATOM	12552	O	ALA	E	133	122.803	96.409	15.796	1.00150.94	8
ATOM	12553	N	ALA	E	134	121.411	96.919	14.099	1.00 75.98	7
ATOM	12554	CA	ALA	E	134	122.029	98.205	13.794	1.00 76.04	6
ATOM	12555	CB	ALA	E	134	122.453	98.229	12.326	1.00130.28	6
ATOM	12556	C	ALA	E	134	121.152	99.422	14.099	1.00 76.45	6
ATOM	12557	O	ALA	E	134	120.927	99.759	15.265	1.00 75.74	8
ATOM	12558	N	ALA	E	135	120.663	100.079	13.048	1.00136.30	7
ATOM	12559	CA	ALA	E	135	119.827	101.266	13.211	1.00137.55	6
ATOM	12560	CB	ALA	E	135	120.504	102.246	14.141	1.00 90.41	6
ATOM	12561	C	ALA	E	135	119.547	101.947	11.877	1.00138.32	6
ATOM	12562	O	ALA	E	135	120.384	101.929	10.973	1.00138.96	8
ATOM	12563	N	ALA	E	136	118.370	102.561	11.773	1.00190.44	7
ATOM	12564	CA	ALA	E	136	117.953	103.260	10.561	1.00191.59	6
ATOM	12565	CB	ALA	E	136	116.494	102.945	10.255	1.00140.21	6
ATOM	12566	C	ALA	E	136	118.140	104.768	10.690	1.00192.38	6
ATOM	12567	O	ALA	E	136	117.752	105.528	9.799	1.00193.07	8
ATOM	12568	N	ALA	E	137	118.728	105.189	11.808	1.00207.72	7
ATOM	12569	CA	ALA	E	137	118.989	106.602	12.081	1.00207.46	6
ATOM	12570	CB	ALA	E	137	117.691	107.408	12.028	1.00117.55	6
ATOM	12571	C	ALA	E	137	119.656	106.785	13.444	1.00207.69	6
ATOM	12572	O	ALA	E	137	120.737	107.364	13.542	1.00208.14	8
ATOM	12573	N	ALA	E	138	119.006	106.291	14.492	1.00150.77	7
ATOM	12574	CA	ALA	E	138	119.539	106.406	15.842	1.00150.79	6
ATOM	12575	CB	ALA	E	138	118.421	106.738	16.809	1.00132.19	6
ATOM	12576	C	ALA	E	138	120.241	105.125	16.270	1.00150.96	6
ATOM	12577	O	ALA	E	138	121.458	105.009	16.150	1.00151.30	8
ATOM	12578	N	ALA	E	139	119.473	104.167	16.776	1.00113.98	7
ATOM	12579	CA	ALA	E	139	120.033	102.895	17.212	1.00113.98	6
ATOM	12580	CB	ALA	E	139	120.454	102.982	18.681	1.00 93.02	6
ATOM	12581	C	ALA	E	139	119.007	101.778	17.012	1.00114.55	6
ATOM	12582	O	ALA	E	139	118.321	101.733	15.987	1.00114.68	8
ATOM	12583	N	ALA	E	140	118.912	100.877	17.990	1.00208.87	7
ATOM	12584	CA	ALA	E	140	117.963	99.763	17.944	1.00208.87	6
ATOM	12585	CB	ALA	E	140	118.526	98.625	17.107	1.00 79.54	6
ATOM	12586	C	ALA	E	140	117.646	99.268	19.355	1.00208.87	6
ATOM	12587	O	ALA	E	140	118.520	99.234	20.221	1.00208.87	8
ATOM	12588	N	ALA	E	141	116.395	98.878	19.580	1.00 83.09	7
ATOM	12589	CA	ALA	E	141	115.965	98.391	20.888	1.00 83.09	6
ATOM	12590	CB	ALA	E	141	115.448	99.555	21.730	1.00160.18	6
ATOM	12591	C	ALA	E	141	114.884	97.310	20.768	1.00 83.22	6

ATOM	12592	O	ALA	E	141	114.196	97.215	19.751	1.00	82.93	8
ATOM	12593	N	ALA	E	142	114.731	96.503	21.814	1.00	194.90	7
ATOM	12594	CA	ALA	E	142	113.736	95.433	21.814	1.00	194.98	6
ATOM	12595	CB	ALA	E	142	113.997	94.476	22.968	1.00	131.90	6
ATOM	12596	C	ALA	E	142	112.318	95.983	21.900	1.00	194.65	6
ATOM	12597	O	ALA	E	142	111.654	95.855	22.931	1.00	195.16	8
ATOM	12598	N	ALA	E	143	111.863	96.590	20.806	1.00	136.97	7
ATOM	12599	CA	ALA	E	143	110.523	97.170	20.724	1.00	136.69	6
ATOM	12600	CB	ALA	E	143	110.267	98.061	21.932	1.00	183.63	6
ATOM	12601	C	ALA	E	143	110.322	97.972	19.437	1.00	136.26	6
ATOM	12602	O	ALA	E	143	109.233	97.972	18.866	1.00	136.76	8
ATOM	12603	N	ALA	E	144	111.377	98.661	19.003	1.00	208.87	7
ATOM	12604	CA	ALA	E	144	111.346	99.474	17.787	1.00	208.87	6
ATOM	12605	CB	ALA	E	144	112.786	99.817	17.342	1.00	78.71	6
ATOM	12606	C	ALA	E	144	110.604	98.719	16.681	1.00	208.87	6
ATOM	12607	O	ALA	E	144	111.203	97.942	15.937	1.00	208.87	8
ATOM	12608	N	ALA	E	145	109.295	98.955	16.589	1.00	138.23	7
ATOM	12609	CA	ALA	E	145	108.446	98.296	15.598	1.00	136.15	6
ATOM	12610	CB	ALA	E	145	107.014	98.202	16.127	1.00	141.89	6
ATOM	12611	C	ALA	E	145	108.465	98.989	14.229	1.00	134.71	6
ATOM	12612	O	ALA	E	145	107.579	99.783	13.903	1.00	134.55	8
ATOM	12613	N	ALA	E	146	109.481	98.672	13.432	1.00	160.11	7
ATOM	12614	CA	ALA	E	146	109.628	99.241	12.099	1.00	157.72	6
ATOM	12615	CB	ALA	E	146	110.936	98.766	11.484	1.00	56.13	6
ATOM	12616	C	ALA	E	146	108.446	98.808	11.236	1.00	156.32	6
ATOM	12617	O	ALA	E	146	107.686	97.928	11.628	1.00	156.69	8
ATOM	12618	N	ALA	E	147	108.289	99.422	10.066	1.00	176.44	7
ATOM	12619	CA	ALA	E	147	107.185	99.075	9.173	1.00	174.35	6
ATOM	12620	CB	ALA	E	147	106.884	100.234	8.225	1.00	13.87	6
ATOM	12621	C	ALA	E	147	107.479	97.810	8.370	1.00	172.71	6
ATOM	12622	O	ALA	E	147	108.565	97.237	8.473	1.00	173.54	8
ATOM	12623	N	ALA	E	148	106.501	97.383	7.573	1.00	146.02	7
ATOM	12624	CA	ALA	E	148	106.631	96.188	6.743	1.00	143.18	6
ATOM	12625	CB	ALA	E	148	105.415	96.067	5.803	1.00	63.85	6
ATOM	12626	C	ALA	E	148	107.923	96.224	5.929	1.00	141.42	6
ATOM	12627	O	ALA	E	148	108.558	95.193	5.703	1.00	141.69	8
ATOM	12628	N	ALA	E	149	108.306	97.424	5.505	1.00	90.34	7
ATOM	12629	CA	ALA	E	149	109.508	97.626	4.706	1.00	87.62	6
ATOM	12630	CB	ALA	E	149	109.302	98.810	3.763	1.00	63.96	6
ATOM	12631	C	ALA	E	149						



ATOM	12648	N	ALA	E	153	114.591	96.677	4.848	1.00	88.91	7
ATOM	12649	CA	ALA	E	153	115.710	97.599	4.838	1.00	88.85	6
ATOM	12650	CB	ALA	E	153	115.309	98.931	5.469	1.00	53.58	6
ATOM	12651	C	ALA	E	153	116.814	96.950	5.646	1.00	89.26	6
ATOM	12652	O	ALA	E	153	117.895	96.680	5.130	1.00	90.15	8
ATOM	12653	N	ALA	E	154	116.520	96.679	6.913	1.00	65.53	7
ATOM	12654	CA	ALA	E	154	117.479	96.058	7.816	1.00	64.96	6
ATOM	12655	CB	ALA	E	154	116.908	96.042	9.224	1.00	20.30	6
ATOM	12656	C	ALA	E	154	117.873	94.640	7.389	1.00	64.65	6
ATOM	12657	O	ALA	E	154	118.616	93.956	8.097	1.00	64.49	8
ATOM	12658	N	ALA	E	155	117.381	94.211	6.228	1.00	100.32	7
ATOM	12659	CA	ALA	E	155	117.680	92.880	5.701	1.00	101.00	6
ATOM	12660	CB	ALA	E	155	116.391	92.209	5.219	1.00	79.53	6
ATOM	12661	C	ALA	E	155	118.713	92.917	4.564	1.00	101.26	6
ATOM	12662	O	ALA	E	155	119.751	92.228	4.690	1.00	101.36	8
ATOM	12663	OXT	ALA	E	155	118.478	93.623	3.557	1.00	79.48	8
ATOM	12664	CB	ALA	F	452	120.550	88.822	12.955	1.00	38.60	6
ATOM	12665	C	ALA	F	452	119.171	90.755	12.218	1.00	67.11	6
ATOM	12666	O	ALA	F	452	119.148	91.619	13.095	1.00	67.68	8
ATOM	12667	N	ALA	F	452	121.671	90.756	11.907	1.00	66.01	7
ATOM	12668	CA	ALA	F	452	120.425	89.931	11.929	1.00	66.79	6
ATOM	12669	N	ALA	F	453	118.113	90.454	11.482	1.00	116.35	7
ATOM	12670	CA	ALA	F	453	116.858	91.167	11.631	1.00	116.97	6
ATOM	12671	CB	ALA	F	453	115.972	90.902	10.409	1.00	200.00	6
ATOM	12672	C	ALA	F	453	116.097	90.834	12.915	1.00	116.82	6
ATOM	12673	O	ALA	F	453	116.690	90.551	13.957	1.00	116.02	8
ATOM	12674	N	ALA	F	454	114.771	90.874	12.808	1.00	83.92	7
ATOM	12675	CA	ALA	F	454	113.864	90.613	13.914	1.00	83.90	6
ATOM	12676	CB	ALA	F	454	113.159	91.891	14.286	1.00	74.11	6
ATOM	12677	C	ALA	F	454	112.836	89.557	13.534	1.00	83.87	6
ATOM	12678	O	ALA	F	454	113.056	88.756	12.626	1.00	83.95	8
ATOM	12679	N	ALA	F	455	111.700	89.579	14.225	1.00	124.76	7
ATOM	12680	CA	ALA	F	455	110.627	88.625	13.974	1.00	125.32	6
ATOM	12681	CB	ALA	F	455	110.726	87.472	14.964	1.00	36.96	6
ATOM	12682	C	ALA	F	455	109.250	89.277	14.075	1.00	125.72	6
ATOM	12683	O	ALA	F	455	109.130	90.458	14.403	1.00	126.19	8
ATOM	12684	N	MET	F	456	108.217	88.492	13.785	1.00	125.26	7
ATOM	12685	CA	MET	F	456	106.837	88.960	13.855	1.00	125.09	6
ATOM	12686	CB	MET	F	456	106.418	89.616	12.540	1.00	119.07	6
ATOM	12687	CG	MET	F	456	105.019	90.211	12.575	1.00	121.00	6
ATOM	12688	SD	MET	F	456	104.271	90.298	10.947	1.00	122.21	16
ATOM	12689	CE	MET	F	456	104.846	91.866	10.393	1.00	123.98	6
ATOM	12690	C	MET	F	456	105.905	87.785	14.144	1.00	124.57	6
ATOM	12691	O	MET	F	456	106.307	86.620	14.043	1.00	124.83	8
ATOM	12692	N	GLY	F	457	104.662	88.098	14.500	1.00	146.13	7
ATOM	12693	CA	GLY	F	457	103.687	87.065	14.795	1.00	144.47	6
ATOM	12694	C	GLY	F	457	103.554	86.800	16.280	1.00	143.55	6
ATOM	12695	O	GLY	F	457	104.230	87.428	17.095	1.00	143.63	8
ATOM	12696	N	ALA	F	458	102.678	85.863	16.630	1.00	89.49	7
ATOM	12697	CA	ALA	F	458	102.445	85.502	18.025	1.00	87.39	6
ATOM	12698	CB	ALA	F	458	101.226	84.599	18.130	1.00	117.14	6
ATOM	12699	C	ALA	F	458	103.663	84.804	18.604	1.00	85.65	6
ATOM	12700	O	ALA	F	458	103.966	84.944	19.783	1.00	85.39	8
ATOM	12701	N	GLU	F	459	104.358	84.049	17.764	1.00	58.03	7
ATOM	12702	CA	GLU	F	459	105.549	83.341	18.193	1.00	56.94	6
ATOM	12703	CB	GLU	F	459	106.075	82.447	17.064	1.00	92.28	6

ATOM	12704	CG	GLU	F	459	107.264	81.581	17.463	1.00	92.76	6
ATOM	12705	CD	GLU	F	459	107.660	80.595	16.383	1.00	93.55	6
ATOM	12706	OE1	GLU	F	459	108.028	81.041	15.276	1.00	93.66	8
ATOM	12707	OE2	GLU	F	459	107.603	79.372	16.640	1.00	94.23	8
ATOM	12708	C	GLU	F	459	106.610	84.359	18.587	1.00	55.62	6
ATOM	12709	O	GLU	F	459	107.421	84.111	19.480	1.00	55.42	8
ATOM	12710	N	ALA	F	460	106.599	85.505	17.913	1.00	57.59	7
ATOM	12711	CA	ALA	F	460	107.554	86.573	18.199	1.00	56.41	6
ATOM	12712	CB	ALA	F	460	107.422	87.680	17.168	1.00	66.61	6
ATOM	12713	C	ALA	F	460	107.262	87.122	19.589	1.00	56.10	6
ATOM	12714	O	ALA	F	460	108.147	87.194	20.449	1.00	54.89	8
ATOM	12715	N	ILE	F	461	106.006	87.513	19.792	1.00	86.97	7
ATOM	12716	CA	ILE	F	461	105.564	88.042	21.071	1.00	86.53	6
ATOM	12717	CB	ILE	F	461	104.083	88.371	21.057	1.00	62.08	6
ATOM	12718	CG2	ILE	F	461	103.727	89.159	22.294	1.00	61.62	6
ATOM	12719	CG1	ILE	F	461	103.744	89.154	19.786	1.00	61.89	6
ATOM	12720	CD1	ILE	F	461	104.631	90.351	19.528	1.00	61.14	6
ATOM	12721	C	ILE	F	461	105.795	86.945	22.075	1.00	87.34	6
ATOM	12722	O	ILE	F	461	106.306	87.186	23.160	1.00	88.20	8
ATOM	12723	N	GLN	F	462	105.410	85.731	21.703	1.00	59.54	7
ATOM	12724	CA	GLN	F	462	105.620	84.584	22.572	1.00	59.73	6
ATOM	12725	CB	GLN	F	462	105.355	83.280	21.818	1.00	89.81	6
ATOM	12726	CG	GLN	F	462	105.526	82.037	22.668	1.00	90.71	6
ATOM	12727	CD	GLN	F	462	105.328	80.761	21.878	1.00	91.74	6
ATOM	12728	OE1	GLN	F	462	106.032	80.516	20.903	1.00	92.84	8
ATOM	12729	NE2	GLN	F	462	104.371	79.938	22.297	1.00	92.15	7
ATOM	12730	C	GLN	F	462	107.088	84.683	22.936	1.00	59.95	6
ATOM	12731	O	GLN	F	462	107.445	84.850	24.106	1.00	59.75	8
ATOM	12732	N	GLU	F	463	107.927	84.607	21.907	1.00	102.73	7
ATOM	12733	CA	GLU	F	463	109.368	84.713	22.065	1.00	103.40	6
ATOM	12734	CB	GLU	F	463	110.006	85.097	20.725	1.00	141.27	6
ATOM	12735	CG	GLU	F	463	111.504	85.335	20.773	1.00	141.64	6
ATOM	12736	CD	GLU	F	463	112.059	85.810	19.441	1.00	141.81	6
ATOM	12737	OE1	GLU	F	463	111.570	86.838	18.924	1.00	141.52	8
ATOM	12738	OE2	GLU	F	463	112.985	85.156	18.913	1.00	142.23	8
ATOM	12739	C	GLU	F	463	109.635	85.788	23.115	1.00	104.05	6
ATOM	12740	O	GLU	F	463	110.198	85.511	24.176	1.00	103.97	8
ATOM	12741	N	LEU	F	464	109.205	87.011	22.828	1.00	65.20	7
ATOM	12742	CA	LEU	F	464	109.396	88.108	23.763	1.00	65.47	6
ATOM	12743	CB	LEU	F	464	108.599	89.335	23.302	1.00	23.98	6
ATOM	12744	CG	LEU	F	464	109.111	90.041	22.045	1.00	22.38	6
ATOM	12745	CD1	LEU	F	464	108.170	91.160	21.594	1.00	21.31	6
ATOM	12746	CD2	LEU	F	464	110.481	90.596	22.357	1.00	22.00	6
ATOM	12747	C	LEU	F	464	108.967	87.695	25.173	1.00	66.98	6
ATOM	12748	O	LEU	F	464	109.739	87.815	26.124	1.00	66.60	8
ATOM	12749	N	LEU	F	465	107.739	87.198	25.304	1.00	90.78	7
ATOM	12750	CA	LEU	F	465	107.235	86.784	26.607	1.00	93.27	6
ATOM	12751	CB	LEU	F	465	105.764	86.351	26.519	1.00	57.35	6
ATOM	12752	CG	LEU	F	465	104.745	87.501	26.623	1.00	56.24	6
ATOM	12753	CD1	LEU	F	465	104.604	88.226	25.298	1.00	55.61	6
ATOM	12754	CD2	LEU	F	465	103.401	86.955	27.048	1.00	55.69	6
ATOM	12755	C	LEU	F	465	108.085	85.669	27.191	1.00	95.50	6
ATOM	12756	O	LEU	F	465	108.746	85.857	28.212	1.00	96.05	8
ATOM	12757	N	ALA	F	466	108.080	84.510	26.547	1.00	162.20	7
ATOM	12758	CA	ALA	F	466	108.877	83.396	27.033	1.00	165.26	6
ATOM	12759	CB	ALA	F	466	108.807	82.225	26.057	1.00	140.53	6

ATOM	12760	C	ALA	F	466	110.313	83.873	27.174	1.00167.47	6
ATOM	12761	O	ALA	F	466	110.677	84.918	26.638	1.00167.66	8
ATOM	12762	N	ALA	F	467	111.110	83.106	27.912	1.00208.87	7
ATOM	12763	CA	ALA	F	467	112.522	83.402	28.143	1.00208.87	6
ATOM	12764	CB	ALA	F	467	113.347	82.899	26.965	1.00176.73	6
ATOM	12765	C	ALA	F	467	112.864	84.867	28.428	1.00208.87	6
ATOM	12766	O	ALA	F	467	113.292	85.198	29.533	1.00208.87	8
ATOM	12767	N	ALA	F	468	112.687	85.728	27.428	1.00164.03	7
ATOM	12768	CA	ALA	F	468	112.986	87.156	27.541	1.00165.22	6
ATOM	12769	CB	ALA	F	468	112.349	87.912	26.384	1.00105.32	6
ATOM	12770	C	ALA	F	468	112.557	87.778	28.864	1.00166.15	6
ATOM	12771	O	ALA	F	468	113.163	87.515	29.904	1.00167.06	8
ATOM	12772	N	ASP	F	469	111.518	88.609	28.827	1.00109.62	7
ATOM	12773	CA	ASP	F	469	111.046	89.258	30.047	1.00109.91	6
ATOM	12774	CB	ASP	F	469	109.794	90.103	29.773	1.00192.11	6
ATOM	12775	CG	ASP	F	469	108.508	89.325	29.954	1.00193.81	6
ATOM	12776	OD1	ASP	F	469	108.331	88.294	29.274	1.00195.21	8
ATOM	12777	OD2	ASP	F	469	107.671	89.751	30.779	1.00195.31	8
ATOM	12778	C	ASP	F	469	110.747	88.180	31.078	1.00108.88	6
ATOM	12779	O	ASP	F	469	110.533	88.464	32.256	1.00108.46	8
ATOM	12780	N	ALA	F	470	110.751	86.936	30.611	1.00123.41	7
ATOM	12781	CA	ALA	F	470	110.504	85.794	31.465	1.00123.29	6
ATOM	12782	CB	ALA	F	470	110.787	84.519	30.715	1.00 39.27	6
ATOM	12783	C	ALA	F	470	111.398	85.904	32.692	1.00123.52	6
ATOM	12784	O	ALA	F	470	111.131	85.282	33.720	1.00123.75	8
ATOM	12785	N	GLU	F	471	112.470	86.684	32.581	1.00100.50	7
ATOM	12786	CA	GLU	F	471	113.344	86.887	33.724	1.00101.02	6
ATOM	12787	CB	GLU	F	471	114.746	87.314	33.277	1.00121.34	6
ATOM	12788	CG	GLU	F	471	114.801	88.468	32.298	1.00121.94	6
ATOM	12789	CD	GLU	F	471	116.230	88.814	31.909	1.00123.23	6
ATOM	12790	OE1	GLU	F	471	116.939	87.934	31.375	1.00124.22	8
ATOM	12791	OE2	GLU	F	471	116.649	89.966	32.142	1.00124.59	8
ATOM	12792	C	GLU	F	471	112.649	87.989	34.508	1.00101.49	6
ATOM	12793	O	GLU	F	471	113.089	89.136	34.534	1.00102.02	8
ATOM	12794	N	ALA	F	472	111.535	87.610	35.130	1.00134.27	7
ATOM	12795	CA	ALA	F	472	110.694	88.518	35.901	1.00134.15	6
ATOM	12796	CB	ALA	F	472	109.315	87.893	36.108	1.00153.46	6
ATOM	12797	C	ALA	F	472	111.272	88.942	37.237	1.00133.41	6
ATOM	12798	O	ALA	F	472	111.185	90.112	37.602	1.00133.06	8
ATOM	12799	N	LEU	F	473	111.843	87.999	37.978	1.00152.73	7
ATOM	12800	CA	LEU	F	473	112.428	88.331	39.269	1.00153.61	6
ATOM	12801	CB	LEU	F	473	113.378	87.226	39.731	1.00199.24	6
ATOM	12802	CG	LEU	F	473	112.750	85.898	40.151	1.00200.51	6
ATOM	12803	CD1	LEU	F	473	113.853	84.921	40.529	1.00200.81	6
ATOM	12804	CD2	LEU	F	473	111.804	86.123	41.325	1.00200.52	6
ATOM	12805	C	LEU	F	473	113.197	89.637	39.142	1.00153.51	6
ATOM	12806	O	LEU	F	473	113.320	90.396	40.105	1.00154.38	8
ATOM	12807	N	GLU	F	474	113.710	89.890	37.941	1.00107.94	7
ATOM	12808	CA	GLU	F	474	114.464	91.104	37.672	1.00107.24	6
ATOM	12809	CB	GLU	F	474	115.330	90.911	36.420	1.00140.51	6
ATOM	12810	CG	GLU	F	474	116.474	89.913	36.651	1.00140.87	6
ATOM	12811	CD	GLU	F	474	117.262	89.577	35.394	1.00141.43	6
ATOM	12812	OE1	GLU	F	474	117.742	90.509	34.717	1.00142.23	8
ATOM	12813	OE2	GLU	F	474	117.413	88.373	35.089	1.00141.78	8
ATOM	12814	C	GLU	F	474	113.517	92.292	37.526	1.00107.50	6
ATOM	12815	O	GLU	F	474	113.692	93.313	38.193	1.00107.84	8

ATOM	12816	N	ARG	F	475	112.505	92.155	36.675	1.00107.45	7
ATOM	12817	CA	ARG	F	475	111.527	93.224	36.480	1.00107.51	6
ATOM	12818	CB	ARG	F	475	110.458	92.787	35.474	1.00141.99	6
ATOM	12819	CG	ARG	F	475	110.974	92.448	34.080	1.00141.55	6
ATOM	12820	CD	ARG	F	475	111.535	93.667	33.359	1.00141.54	6
ATOM	12821	NE	ARG	F	475	111.576	93.458	31.913	1.00141.93	7
ATOM	12822	CZ	ARG	F	475	111.971	94.371	31.031	1.00141.54	6
ATOM	12823	NH1	ARG	F	475	112.367	95.567	31.441	1.00141.34	7
ATOM	12824	NH2	ARG	F	475	111.958	94.089	29.735	1.00141.23	7
ATOM	12825	C	ARG	F	475	110.861	93.542	37.822	1.00107.45	6
ATOM	12826	O	ARG	F	475	110.295	94.621	38.021	1.00107.57	8
ATOM	12827	N	ALA	F	476	110.935	92.583	38.738	1.00 99.87	7
ATOM	12828	CA	ALA	F	476	110.351	92.720	40.065	1.00 99.52	6
ATOM	12829	CB	ALA	F	476	110.477	91.395	40.823	1.00 23.91	6
ATOM	12830	C	ALA	F	476	111.012	93.848	40.858	1.00 99.38	6
ATOM	12831	O	ALA	F	476	110.378	94.870	41.141	1.00 99.48	8
ATOM	12832	N	LEU	F	477	112.282	93.656	41.218	1.00 83.50	7
ATOM	12833	CA	LEU	F	477	113.022	94.657	41.980	1.00 83.52	6
ATOM	12834	CB	LEU	F	477	114.353	94.090	42.469	1.00 91.72	6
ATOM	12835	CG	LEU	F	477	115.096	94.997	43.458	1.00 92.35	6
ATOM	12836	CD1	LEU	F	477	114.213	95.278	44.671	1.00 92.01	6
ATOM	12837	CD2	LEU	F	477	116.408	94.338	43.888	1.00 92.88	6
ATOM	12838	C	LEU	F	477	113.272	95.863	41.096	1.00 83.85	6
ATOM	12839	O	LEU	F	477	113.595	96.950	41.581	1.00 83.05	8
ATOM	12840	N	ALA	F	478	113.120	95.656	39.792	1.00145.48	7
ATOM	12841	CA	ALA	F	478	113.297	96.720	38.816	1.00147.27	6
ATOM	12842	CB	ALA	F	478	113.356	96.139	37.412	1.00126.87	6
ATOM	12843	C	ALA	F	478	112.096	97.641	38.952	1.00148.37	6
ATOM	12844	O	ALA	F	478	112.232	98.821	39.277	1.00148.44	8
ATOM	12845	N	ALA	F	479	110.915	97.089	38.702	1.00136.33	7
ATOM	12846	CA	ALA	F	479	109.687	97.855	38.820	1.00137.64	6
ATOM	12847	CB	ALA	F	479	108.482	96.929	38.660	1.00117.85	6
ATOM	12848	C	ALA	F	479	109.693	98.493	40.207	1.00138.59	6
ATOM	12849	O	ALA	F	479	109.482	99.699	40.357	1.00139.42	8
ATOM	12850	N	GLU	F	480	109.958	97.668	41.216	1.00152.44	7
ATOM	12851	CA	GLU	F	480	110.010	98.119	42.600	1.00153.69	6
ATOM	12852	CB	GLU	F	480	110.554	96.996	43.492	1.00169.11	6
ATOM	12853	CG	GLU	F	480	110.873	97.411	44.922	1.00170.48	6
ATOM	12854	CD	GLU	F	480	109.646	97.826	45.706	1.00171.78	6
ATOM	12855	OE1	GLU	F	480	108.756	96.977	45.909	1.00172.92	8
ATOM	12856	OE2	GLU	F	480	109.572	99.001	46.123	1.00172.97	8
ATOM	12857	C	GLU	F	480	110.889	99.359	42.731	1.00154.65	6
ATOM	12858	O	GLU	F	480	110.735	100.141	43.669	1.00154.26	8
ATOM	12859	N	MET	F	481	111.807	99.541	41.787	1.00171.53	7
ATOM	12860	CA	MET	F	481	112.698	100.692	41.833	1.00172.59	6
ATOM	12861	CB	MET	F	481	114.032	100.377	41.145	1.00195.46	6
ATOM	12862	CG	MET	F	481	115.126	101.411	41.420	1.00197.17	6
ATOM	12863	SD	MET	F	481	115.700	102.328	39.968	1.00198.29	16
ATOM	12864	CE	MET	F	481	117.184	101.401	39.565	1.00198.23	6
ATOM	12865	C	MET	F	481	112.068	101.917	41.186	1.00172.32	6
ATOM	12866	O	MET	F	481	112.696	102.974	41.115	1.00172.57	8
ATOM	12867	N	LYS	F	482	110.833	101.787	40.712	1.00125.11	7
ATOM	12868	CA	LYS	F	482	110.182	102.933	40.101	1.00125.70	6
ATOM	12869	CB	LYS	F	482	109.566	102.577	38.750	1.00123.80	6
ATOM	12870	CG	LYS	F	482	109.282	103.809	37.895	1.00124.10	6
ATOM	12871	CD	LYS	F	482	109.064	103.435	36.443	1.00124.93	6

ATOM	12872	CE	LYS	F	482	109.085	104.660	35.549	1.00125.42	6
ATOM	12873	NZ	LYS	F	482	109.040	104.274	34.109	1.00125.58	7
ATOM	12874	C	LYS	F	482	109.124	103.519	41.018	1.00125.74	6
ATOM	12875	O	LYS	F	482	108.029	102.980	41.176	1.00125.86	8
ATOM	12876	N	ALA	F	483	109.495	104.636	41.625	1.00201.16	7
ATOM	12877	CA	ALA	F	483	108.658	105.380	42.543	1.00200.45	6
ATOM	12878	CB	ALA	F	483	108.714	104.750	43.930	1.00 57.23	6
ATOM	12879	C	ALA	F	483	109.169	106.820	42.592	1.00200.60	6
ATOM	12880	O	ALA	F	483	108.389	107.752	42.793	1.00201.18	8
ATOM	12881	N	PRO	F	484	110.490	107.025	42.397	1.00128.83	7
ATOM	12882	CD	PRO	F	484	111.546	106.096	41.960	1.00163.61	6
ATOM	12883	CA	PRO	F	484	111.012	108.392	42.437	1.00128.74	6
ATOM	12884	CB	PRO	F	484	112.467	108.221	42.000	1.00163.95	6
ATOM	12885	CG	PRO	F	484	112.427	106.998	41.144	1.00163.51	6
ATOM	12886	C	PRO	F	484	110.234	109.313	41.516	1.00128.71	6
ATOM	12887	O	PRO	F	484	109.676	110.315	41.959	1.00128.57	8
ATOM	12888	N	SER	F	485	110.193	108.963	40.236	1.00110.07	7
ATOM	12889	CA	SER	F	485	109.470	109.762	39.258	1.00110.23	6
ATOM	12890	CB	SER	F	485	109.391	109.015	37.925	1.00126.40	6
ATOM	12891	OG	SER	F	485	108.681	109.770	36.960	1.00126.46	8
ATOM	12892	C	SER	F	485	108.063	110.087	39.767	1.00110.37	6
ATOM	12893	O	SER	F	485	107.555	109.442	40.688	1.00110.69	8
ATOM	12894	N	ARG	F	486	107.444	111.095	39.161	1.00108.29	7
ATOM	12895	CA	ARG	F	486	106.108	111.538	39.542	1.00108.04	6
ATOM	12896	CB	ARG	F	486	105.807	112.883	38.878	1.00191.80	6
ATOM	12897	CG	ARG	F	486	106.120	112.937	37.386	1.00191.38	6
ATOM	12898	CD	ARG	F	486	105.239	113.968	36.703	1.00190.89	6
ATOM	12899	NE	ARG	F	486	105.201	115.223	37.449	1.00190.38	7
ATOM	12900	CZ	ARG	F	486	104.299	116.178	37.255	1.00190.43	6
ATOM	12901	NH1	ARG	F	486	103.355	116.024	36.336	1.00190.60	7
ATOM	12902	NH2	ARG	F	486	104.334	117.285	37.986	1.00190.17	7
ATOM	12903	C	ARG	F	486	104.972	110.559	39.229	1.00108.40	6
ATOM	12904	O	ARG	F	486	104.580	109.756	40.077	1.00108.25	8
ATOM	12905	N	ALA	F	487	104.440	110.641	38.012	1.00208.87	7
ATOM	12906	CA	ALA	F	487	103.332	109.789	37.582	1.00208.87	6
ATOM	12907	CB	ALA	F	487	102.559	110.480	36.452	1.00163.19	6
ATOM	12908	C	ALA	F	487	103.764	108.388	37.143	1.00208.87	6
ATOM	12909	O	ALA	F	487	103.075	107.403	37.421	1.00208.87	8
ATOM	12910	N	ARG	F	488	104.898	108.301	36.454	1.00183.84	7
ATOM	12911	CA	ARG	F	488	105.415	107.019	35.979	1.00183.25	6
ATOM	12912	CB	ARG	F	488	106.778	107.225	35.318	1.00195.91	6
ATOM	12913	CG	ARG	F	488	106.778	108.271	34.214	1.00196.60	6
ATOM	12914	CD	ARG	F	488	108.187	108.517	33.696	1.00197.72	6
ATOM	12915	NE	ARG	F	488	108.222	109.500	32.617	1.00198.81	7
ATOM	12916	CZ	ARG	F	488	109.334	109.899	32.006	1.00199.34	6
ATOM	12917	NH1	ARG	F	488	110.510	109.400	32.367	1.00200.18	7
ATOM	12918	NH2	ARG	F	488	109.272	110.794	31.030	1.00199.44	7
ATOM	12919	C	ARG	F	488	105.547	106.029	37.133	1.00182.60	6
ATOM	12920	O	ARG	F	488	105.600	104.816	36.926	1.00182.59	8
ATOM	12921	N	ARG	F	489	105.601	106.568	38.348	1.00194.53	7
ATOM	12922	CA	ARG	F	489	105.728	105.772	39.563	1.00193.24	6
ATOM	12923	CB	ARG	F	489	105.595	106.668	40.799	1.00207.41	6
ATOM	12924	CG	ARG	F	489	105.414	105.899	42.103	1.00208.86	6
ATOM	12925	CD	ARG	F	489	104.827	106.782	43.196	1.00208.87	6
ATOM	12926	NE	ARG	F	489	104.466	106.014	44.386	1.00208.87	7
ATOM	12927	CZ	ARG	F	489	103.763	106.498	45.408	1.00208.87	6

ATOM	12928	NH1	ARG	F	489	103.338	107.756	45.392	1.00208.87	7
ATOM	12929	NH2	ARG	F	489	103.481	105.721	46.445	1.00208.87	7
ATOM	12930	C	ARG	F	489	104.672	104.683	39.635	1.00191.50	6
ATOM	12931	O	ARG	F	489	104.951	103.562	40.056	1.00191.14	8
ATOM	12932	N	ALA	F	490	103.458	105.021	39.218	1.00104.12	7
ATOM	12933	CA	ALA	F	490	102.345	104.082	39.260	1.00102.04	6
ATOM	12934	CB	ALA	F	490	101.030	104.853	39.236	1.00167.05	6
ATOM	12935	C	ALA	F	490	102.359	103.041	38.146	1.00100.50	6
ATOM	12936	O	ALA	F	490	102.230	101.843	38.406	1.00 99.85	8
ATOM	12937	N	LYS	F	491	102.506	103.502	36.908	1.00 76.30	7
ATOM	12938	CA	LYS	F	491	102.517	102.608	35.757	1.00 75.17	6
ATOM	12939	CB	LYS	F	491	103.203	103.293	34.568	1.00127.19	6
ATOM	12940	CG	LYS	F	491	103.182	102.472	33.281	1.00127.46	6
ATOM	12941	CD	LYS	F	491	103.762	103.244	32.094	1.00127.22	6
ATOM	12942	CE	LYS	F	491	103.773	102.395	30.823	1.00126.76	6
ATOM	12943	NZ	LYS	F	491	104.299	103.134	29.642	1.00125.81	7
ATOM	12944	C	LYS	F	491	103.207	101.284	36.077	1.00 74.50	6
ATOM	12945	O	LYS	F	491	102.566	100.234	36.120	1.00 74.45	8
ATOM	12946	N	ALA	F	492	104.513	101.339	36.317	1.00154.72	7
ATOM	12947	CA	ALA	F	492	105.276	100.138	36.627	1.00153.72	6
ATOM	12948	CB	ALA	F	492	106.727	100.507	36.957	1.00 87.63	6
ATOM	12949	C	ALA	F	492	104.650	99.352	37.780	1.00152.88	6
ATOM	12950	O	ALA	F	492	104.627	98.123	37.761	1.00153.45	8
ATOM	12951	N	ARG	F	493	104.131	100.056	38.778	1.00 91.36	7
ATOM	12952	CA	ARG	F	493	103.521	99.390	39.922	1.00 90.04	6
ATOM	12953	CB	ARG	F	493	103.115	100.417	40.974	1.00125.67	6
ATOM	12954	CG	ARG	F	493	104.294	101.163	41.552	1.00125.72	6
ATOM	12955	CD	ARG	F	493	105.274	100.217	42.222	1.00125.76	6
ATOM	12956	NE	ARG	F	493	106.494	100.917	42.602	1.00126.66	7
ATOM	12957	CZ	ARG	F	493	107.459	100.392	43.347	1.00127.10	6
ATOM	12958	NH1	ARG	F	493	107.350	99.150	43.800	1.00126.62	7
ATOM	12959	NH2	ARG	F	493	108.531	101.114	43.638	1.00127.67	7
ATOM	12960	C	ARG	F	493	102.320	98.538	39.541	1.00 89.07	6
ATOM	12961	O	ARG	F	493	102.153	97.434	40.055	1.00 89.29	8
ATOM	12962	N	LYS	F	494	101.471	99.049	38.654	1.00 87.69	7
ATOM	12963	CA	LYS	F	494	100.309	98.277	38.227	1.00 85.89	6
ATOM	12964	CB	LYS	F	494	99.505	99.027	37.158	1.00135.77	6
ATOM	12965	CG	LYS	F	494	98.483	98.159	36.416	1.00136.55	6
ATOM	12966	CD	LYS	F	494	97.562	97.405	37.374	1.00137.12	6
ATOM	12967	CE	LYS	F	494	96.638	96.450	36.629	1.00136.57	6
ATOM	12968	NZ	LYS	F	494	95.858	95.587	37.559	1.00136.70	7
ATOM	12969	C	LYS	F	494	100.847	96.978	37.661	1.00 83.95	6
ATOM	12970	O	LYS	F	494	100.259	95.913	37.852	1.00 83.51	8
ATOM	12971	N	ARG	F	495	101.975	97.078	36.964	1.00 55.10	7
ATOM	12972	CA	ARG	F	495	102.607	95.901	36.402	1.00 53.32	6
ATOM	12973	CB	ARG	F	495	103.890	96.272	35.677	1.00 88.28	6
ATOM	12974	CG	ARG	F	495	103.732	97.313	34.596	1.00 89.56	6
ATOM	12975	CD	ARG	F	495	104.991	97.321	33.753	1.00 90.19	6
ATOM	12976	NE	ARG	F	495	104.966	98.309	32.686	1.00 91.11	7
ATOM	12977	CZ	ARG	F	495	105.882	98.367	31.730	1.00 92.51	6
ATOM	12978	NH1	ARG	F	495	106.879	97.488	31.724	1.00 92.23	7
ATOM	12979	NH2	ARG	F	495	105.809	99.303	30.791	1.00 93.51	7
ATOM	12980	C	ARG	F	495	102.944	95.003	37.581	1.00 51.67	6
ATOM	12981	O	ARG	F	495	102.719	93.801	37.546	1.00 50.96	8
ATOM	12982	N	LEU	F	496	103.487	95.607	38.631	1.00 63.99	7
ATOM	12983	CA	LEU	F	496	103.847	94.868	39.828	1.00 63.47	6

ATOM	12984	CB	LEU	F	496	104.200	95.843	40.953	1.00	65.63	6
ATOM	12985	CG	LEU	F	496	104.639	95.302	42.316	1.00	65.50	6
ATOM	12986	CD1	LEU	F	496	105.927	94.498	42.213	1.00	65.71	6
ATOM	12987	CD2	LEU	F	496	104.838	96.485	43.231	1.00	65.48	6
ATOM	12988	C	LEU	F	496	102.656	93.996	40.216	1.00	63.38	6
ATOM	12989	O	LEU	F	496	102.814	92.828	40.570	1.00	63.43	8
ATOM	12990	N	GLU	F	497	101.456	94.560	40.139	1.00	122.41	7
ATOM	12991	CA	GLU	F	497	100.265	93.789	40.471	1.00	122.58	6
ATOM	12992	CB	GLU	F	497	98.996	94.636	40.296	1.00	133.57	6
ATOM	12993	CG	GLU	F	497	98.753	95.631	41.428	1.00	135.30	6
ATOM	12994	CD	GLU	F	497	97.354	96.224	41.402	1.00	135.97	6
ATOM	12995	OE1	GLU	F	497	97.065	97.047	40.507	1.00	136.03	8
ATOM	12996	OE2	GLU	F	497	96.541	95.862	42.279	1.00	137.23	8
ATOM	12997	C	GLU	F	497	100.218	92.573	39.553	1.00	122.13	6
ATOM	12998	O	GLU	F	497	100.154	91.436	40.017	1.00	122.56	8
ATOM	12999	N	VAL	F	498	100.272	92.828	38.250	1.00	72.19	7
ATOM	13000	CA	VAL	F	498	100.242	91.774	37.249	1.00	70.74	6
ATOM	13001	CB	VAL	F	498	100.221	92.378	35.824	1.00	72.47	6
ATOM	13002	CG1	VAL	F	498	99.927	91.300	34.799	1.00	72.74	6
ATOM	13003	CG2	VAL	F	498	99.191	93.484	35.744	1.00	72.28	6
ATOM	13004	C	VAL	F	498	101.480	90.891	37.395	1.00	70.14	6
ATOM	13005	O	VAL	F	498	101.379	89.669	37.478	1.00	70.06	8
ATOM	13006	N	VAL	F	499	102.648	91.527	37.426	1.00	55.74	7
ATOM	13007	CA	VAL	F	499	103.923	90.831	37.550	1.00	54.82	6
ATOM	13008	CB	VAL	F	499	105.093	91.815	37.601	1.00	43.37	6
ATOM	13009	CG1	VAL	F	499	106.377	91.067	37.945	1.00	43.47	6
ATOM	13010	CG2	VAL	F	499	105.211	92.548	36.268	1.00	42.33	6
ATOM	13011	C	VAL	F	499	103.971	89.982	38.801	1.00	55.59	6
ATOM	13012	O	VAL	F	499	104.171	88.775	38.724	1.00	55.51	8
ATOM	13013	N	ARG	F	500	103.809	90.614	39.959	1.00	56.20	7
ATOM	13014	CA	ARG	F	500	103.823	89.859	41.199	1.00	57.29	6
ATOM	13015	CB	ARG	F	500	103.587	90.764	42.416	1.00	104.33	6
ATOM	13016	CG	ARG	F	500	104.844	91.519	42.863	1.00	105.86	6
ATOM	13017	CD	ARG	F	500	106.035	90.560	43.038	1.00	107.04	6
ATOM	13018	NE	ARG	F	500	107.312	91.247	43.251	1.00	107.51	7
ATOM	13019	CZ	ARG	F	500	108.489	90.633	43.380	1.00	107.98	6
ATOM	13020	NH1	ARG	F	500	108.574	89.310	43.319	1.00	108.10	7
ATOM	13021	NH2	ARG	F	500	109.591	91.342	43.578	1.00	108.12	7
ATOM	13022	C	ARG	F	500	102.731	88.814	41.079	1.00	57.39	6
ATOM	13023	O	ARG	F	500	102.906	87.671	41.501	1.00	57.07	8
ATOM	13024	N	ALA	F	501	101.611	89.201	40.477	1.00	75.03	7
ATOM	13025	CA	ALA	F	501	100.513	88.263	40.282	1.00	75.89	6
ATOM	13026	CB	ALA	F	501	99.393	88.910	39.467	1.00	97.61	6
ATOM	13027	C	ALA	F	501	101.091	87.075	39.528	1.00	75.95	6
ATOM	13028	O	ALA	F	501	101.143	85.955	40.042	1.00	75.79	8
ATOM	13029	N	PHE	F	502	101.535	87.338	38.305	1.00	72.31	7
ATOM	13030	CA	PHE	F	502	102.119	86.305	37.479	1.00	73.66	6
ATOM	13031	CB	PHE	F	502	102.751	86.923	36.231	1.00	106.46	6
ATOM	13032	CG	PHE	F	502	101.938	86.719	34.992	1.00	107.25	6
ATOM	13033	CD1	PHE	F	502	100.591	87.043	34.976	1.00	107.94	6
ATOM	13034	CD2	PHE	F	502	102.498	86.152	33.858	1.00	107.10	6
ATOM	13035	CE1	PHE	F	502	99.809	86.799	33.853	1.00	108.27	6
ATOM	13036	CE2	PHE	F	502	101.721	85.905	32.730	1.00	107.18	6
ATOM	13037	CZ	PHE	F	502	100.373	86.229	32.732	1.00	107.70	6
ATOM	13038	C	PHE	F	502	103.159	85.581	38.298	1.00	74.40	6
ATOM	13039	O	PHE	F	502	102.986	84.417	38.659	1.00	75.35	8

ATOM	13040	N	LEU	F	503	104.227	86.300	38.612	1.00144.01	7
ATOM	13041	CA	LEU	F	503	105.341	85.777	39.385	1.00143.30	6
ATOM	13042	CB	LEU	F	503	106.236	86.941	39.812	1.00 62.42	6
ATOM	13043	CG	LEU	F	503	107.595	86.642	40.432	1.00 61.59	6
ATOM	13044	CD1	LEU	F	503	108.292	85.474	39.727	1.00 61.85	6
ATOM	13045	CD2	LEU	F	503	108.416	87.913	40.343	1.00 61.12	6
ATOM	13046	C	LEU	F	503	104.901	84.966	40.601	1.00143.57	6
ATOM	13047	O	LEU	F	503	105.648	84.126	41.101	1.00143.43	8
ATOM	13048	N	ASP	F	504	103.684	85.212	41.070	1.00 65.46	7
ATOM	13049	CA	ASP	F	504	103.169	84.494	42.225	1.00 65.60	6
ATOM	13050	CB	ASP	F	504	102.127	85.344	42.953	1.00116.60	6
ATOM	13051	CG	ASP	F	504	101.593	84.671	44.202	1.00117.92	6
ATOM	13052	OD1	ASP	F	504	100.415	84.246	44.201	1.00118.18	8
ATOM	13053	OD2	ASP	F	504	102.356	84.568	45.187	1.00118.37	8
ATOM	13054	C	ASP	F	504	102.550	83.180	41.790	1.00 65.38	6
ATOM	13055	O	ASP	F	504	101.956	83.086	40.711	1.00 64.75	8
ATOM	13056	N	SER	F	505	102.689	82.169	42.640	1.00171.49	7
ATOM	13057	CA	SER	F	505	102.148	80.846	42.358	1.00172.26	6
ATOM	13058	CB	SER	F	505	100.621	80.870	42.392	1.00142.22	6
ATOM	13059	OG	SER	F	505	100.103	81.468	41.213	1.00142.34	8
ATOM	13060	C	SER	F	505	102.594	80.417	40.974	1.00172.09	6
ATOM	13061	O	SER	F	505	103.662	80.809	40.502	1.00173.16	8
ATOM	13062	N	GLY	F	506	101.756	79.621	40.322	1.00136.01	7
ATOM	13063	CA	GLY	F	506	102.073	79.153	38.991	1.00135.48	6
ATOM	13064	C	GLY	F	506	102.068	80.270	37.968	1.00134.91	6
ATOM	13065	O	GLY	F	506	102.060	81.454	38.317	1.00134.80	8
ATOM	13066	N	ASN	F	507	102.068	79.867	36.701	1.00 83.16	7
ATOM	13067	CA	ASN	F	507	102.071	80.758	35.548	1.00 81.70	6
ATOM	13068	CB	ASN	F	507	101.599	82.175	35.885	1.00 73.42	6
ATOM	13069	CG	ASN	F	507	101.890	83.169	34.755	1.00 72.57	6
ATOM	13070	OD1	ASN	F	507	101.037	83.458	33.917	1.00 72.40	8
ATOM	13071	ND2	ASN	F	507	103.112	83.674	34.726	1.00 72.19	7
ATOM	13072	C	ASN	F	507	103.445	80.881	34.951	1.00 80.94	6
ATOM	13073	O	ASN	F	507	104.454	80.812	35.646	1.00 81.65	8
ATOM	13074	N	ARG	F	508	103.441	81.075	33.641	1.00 31.98	7
ATOM	13075	CA	ARG	F	508	104.609	81.268	32.808	1.00 31.15	6
ATOM	13076	CB	ARG	F	508	105.322	79.939	32.520	1.00 80.17	6
ATOM	13077	CG	ARG	F	508	105.405	78.991	33.711	1.00 81.68	6
ATOM	13078	CD	ARG	F	508	106.294	77.766	33.470	1.00 82.38	6
ATOM	13079	NE	ARG	F	508	106.313	76.885	34.644	1.00 82.32	7
ATOM	13080	CZ	ARG	F	508	107.069	75.795	34.768	1.00 82.37	6
ATOM	13081	NH1	ARG	F	508	107.891	75.432	33.788	1.00 81.92	7
ATOM	13082	NH2	ARG	F	508	106.994	75.060	35.872	1.00 81.71	7
ATOM	13083	C	ARG	F	508	103.811	81.686	31.595	1.00 30.98	6
ATOM	13084	O	ARG	F	508	103.053	80.880	31.084	1.00 30.86	8
ATOM	13085	N	PRO	F	509	103.905	82.953	31.158	1.00 57.22	7
ATOM	13086	CD	PRO	F	509	104.693	84.033	31.771	1.00 45.48	6
ATOM	13087	CA	PRO	F	509	103.169	83.451	29.986	1.00 57.41	6
ATOM	13088	CB	PRO	F	509	103.974	84.667	29.576	1.00 44.60	6
ATOM	13089	CG	PRO	F	509	104.334	85.238	30.903	1.00 45.30	6
ATOM	13090	C	PRO	F	509	103.021	82.452	28.838	1.00 58.61	6
ATOM	13091	O	PRO	F	509	103.623	82.612	27.775	1.00 58.75	8
ATOM	13092	N	GLU	F	510	102.212	81.423	29.075	1.00137.55	7
ATOM	13093	CA	GLU	F	510	101.943	80.376	28.102	1.00138.27	6
ATOM	13094	CB	GLU	F	510	101.523	79.088	28.822	1.00 63.47	6
ATOM	13095	CG	GLU	F	510	102.671	78.300	29.436	1.00 65.36	6



ATOM	13096	CD	GLU	F	510	102.410	77.895	30.878	1.00	67.59	6
ATOM	13097	OE1	GLU	F	510	101.326	77.353	31.154	1.00	69.46	8
ATOM	13098	OE2	GLU	F	510	103.288	78.108	31.742	1.00	68.15	8
ATOM	13099	C	GLU	F	510	100.808	80.877	27.234	1.00	139.48	6
ATOM	13100	O	GLU	F	510	100.863	80.800	26.009	1.00	141.41	8
ATOM	13101	N	TRP	F	511	99.784	81.394	27.902	1.00	36.04	7
ATOM	13102	CA	TRP	F	511	98.602	81.943	27.262	1.00	35.28	6
ATOM	13103	CB	TRP	F	511	97.855	82.837	28.249	1.00	106.42	6
ATOM	13104	CG	TRP	F	511	98.740	83.855	28.899	1.00	106.87	6
ATOM	13105	CD2	TRP	F	511	98.656	85.278	28.770	1.00	106.98	6
ATOM	13106	CE2	TRP	F	511	99.701	85.828	29.538	1.00	107.23	6
ATOM	13107	CE3	TRP	F	511	97.801	86.140	28.081	1.00	107.48	6
ATOM	13108	CD1	TRP	F	511	99.803	83.610	29.717	1.00	107.32	6
ATOM	13109	NE1	TRP	F	511	100.386	84.789	30.105	1.00	107.63	7
ATOM	13110	CZ2	TRP	F	511	99.912	87.201	29.636	1.00	107.53	6
ATOM	13111	CZ3	TRP	F	511	98.015	87.506	28.181	1.00	107.86	6
ATOM	13112	CH2	TRP	F	511	99.061	88.019	28.951	1.00	107.57	6
ATOM	13113	C	TRP	F	511	98.932	82.737	26.007	1.00	34.42	6
ATOM	13114	O	TRP	F	511	98.894	83.962	25.989	1.00	33.08	8
ATOM	13115	N	MET	F	512	99.247	81.991	24.964	1.00	54.37	7
ATOM	13116	CA	MET	F	512	99.583	82.460	23.629	1.00	56.16	6
ATOM	13117	CB	MET	F	512	100.906	83.207	23.616	1.00	102.60	6
ATOM	13118	CG	MET	F	512	100.767	84.612	24.147	1.00	105.97	6
ATOM	13119	SD	MET	F	512	102.331	85.393	24.500	1.00	109.61	16
ATOM	13120	CE	MET	F	512	103.055	84.175	25.623	1.00	110.11	6
ATOM	13121	C	MET	F	512	99.725	81.095	23.007	1.00	55.96	6
ATOM	13122	O	MET	F	512	100.522	80.870	22.106	1.00	55.60	8
ATOM	13123	N	ILE	F	513	98.921	80.196	23.578	1.00	117.50	7
ATOM	13124	CA	ILE	F	513	98.792	78.777	23.259	1.00	117.53	6
ATOM	13125	CB	ILE	F	513	97.352	78.287	23.603	1.00	134.32	6
ATOM	13126	CG2	ILE	F	513	97.086	76.913	23.008	1.00	134.92	6
ATOM	13127	CG1	ILE	F	513	97.171	78.232	25.120	1.00	135.24	6
ATOM	13128	CD1	ILE	F	513	98.110	77.261	25.816	1.00	134.91	6
ATOM	13129	C	ILE	F	513	99.133	78.295	21.862	1.00	117.10	6
ATOM	13130	O	ILE	F	513	98.947	78.998	20.869	1.00	116.57	8
ATOM	13131	N	LEU	F	514	99.637	77.067	21.818	1.00	57.60	7
ATOM	13132	CA	LEU	F	514	99.994	76.404	20.581	1.00	57.13	6
ATOM	13133	CB	LEU	F	514	101.509	76.235	20.478	1.00	186.03	6
ATOM	13134	CG	LEU	F	514	102.047	75.692	19.152	1.00	188.54	6
ATOM	13135	CD1	LEU	F	514	101.564	76.565	18.002	1.00	189.47	6
ATOM	13136	CD2	LEU	F	514	103.569	75.661	19.192	1.00	189.74	6
ATOM	13137	C	LEU	F	514	99.319	75.049	20.691	1.00	55.99	6
ATOM	13138	O	LEU	F	514	99.998	74.023	20.803	1.00	55.74	8
ATOM	13139	N	ALA	F	515	97.979	75.076	20.691	1.00	111.70	7
ATOM	13140	CA	ALA	F	515	97.115	73.890	20.799	1.00	110.85	6
ATOM	13141	CB	ALA	F	515	97.717	72.882	21.782	1.00	79.24	6
ATOM	13142	C	ALA	F	515	95.693	74.249	21.260	1.00	109.71	6
ATOM	13143	O	ALA	F	515	95.379	74.100	22.442	1.00	110.12	8
ATOM	13144	N	ALA	F	516	94.832	74.698	20.344	1.00	72.87	7
ATOM	13145	CA	ALA	F	516	93.449	75.070	20.707	1.00	71.59	6
ATOM	13146	CB	ALA	F	516	92.749	75.771	19.537	1.00	13.87	6
ATOM	13147	C	ALA	F	516	92.608	73.885	21.169	1.00	70.92	6
ATOM	13148	O	ALA	F	516	92.942	72.730	20.911	1.00	71.10	8
ATOM	13149	N	VAL	F	517	91.500	74.167	21.843	1.00	66.87	7
ATOM	13150	CA	VAL	F	517	90.667	73.079	22.336	1.00	66.50	6
ATOM	13151	CB	VAL	F	517	91.093	72.689	23.766	1.00	95.37	6

ATOM	13152	CG1	VAL	F	517	90.500	71.341	24.129	1.00	96.39	6
ATOM	13153	CG2	VAL	F	517	92.608	72.668	23.877	1.00	94.93	6
ATOM	13154	C	VAL	F	517	89.148	73.321	22.348	1.00	65.39	6
ATOM	13155	O	VAL	F	517	88.671	74.339	22.853	1.00	65.01	8
ATOM	13156	N	PRO	F	518	88.377	72.385	21.766	1.00	77.59	7
ATOM	13157	CD	PRO	F	518	88.925	71.439	20.778	1.00	85.26	6
ATOM	13158	CA	PRO	F	518	86.915	72.405	21.675	1.00	76.43	6
ATOM	13159	CB	PRO	F	518	86.666	71.894	20.266	1.00	84.37	6
ATOM	13160	CG	PRO	F	518	87.665	70.852	20.134	1.00	85.38	6
ATOM	13161	C	PRO	F	518	86.390	71.432	22.732	1.00	75.42	6
ATOM	13162	O	PRO	F	518	87.074	70.450	23.058	1.00	75.98	8
ATOM	13163	N	VAL	F	519	85.199	71.673	23.275	1.00	24.60	7
ATOM	13164	CA	VAL	F	519	84.701	70.741	24.284	1.00	22.89	6
ATOM	13165	CB	VAL	F	519	83.435	71.277	25.003	1.00	39.08	6
ATOM	13166	CG1	VAL	F	519	83.111	70.391	26.209	1.00	39.89	6
ATOM	13167	CG2	VAL	F	519	83.642	72.729	25.437	1.00	38.27	6
ATOM	13168	C	VAL	F	519	84.369	69.441	23.568	1.00	21.64	6
ATOM	13169	O	VAL	F	519	84.515	69.349	22.352	1.00	20.81	8
ATOM	13170	N	LEU	F	520	83.916	68.443	24.313	1.00	24.74	7
ATOM	13171	CA	LEU	F	520	83.568	67.149	23.736	1.00	27.17	6
ATOM	13172	CB	LEU	F	520	83.281	66.185	24.865	1.00	54.99	6
ATOM	13173	CG	LEU	F	520	84.606	65.976	25.578	1.00	58.04	6
ATOM	13174	CD1	LEU	F	520	84.401	65.492	27.000	1.00	58.81	6
ATOM	13175	CD2	LEU	F	520	85.417	65.024	24.731	1.00	59.39	6
ATOM	13176	C	LEU	F	520	82.400	67.161	22.760	1.00	28.37	6
ATOM	13177	O	LEU	F	520	81.813	68.203	22.476	1.00	28.71	8
ATOM	13178	N	PRO	F	521	82.067	66.002	22.193	1.00	52.35	7
ATOM	13179	CD	PRO	F	521	82.788	64.735	21.997	1.00	122.40	6
ATOM	13180	CA	PRO	F	521	80.933	66.118	21.281	1.00	53.25	6
ATOM	13181	CB	PRO	F	521	80.907	64.761	20.567	1.00	121.72	6
ATOM	13182	CG	PRO	F	521	81.698	63.844	21.473	1.00	123.75	6
ATOM	13183	C	PRO	F	521	79.616	66.460	21.986	1.00	53.55	6
ATOM	13184	O	PRO	F	521	78.869	67.306	21.494	1.00	54.88	8
ATOM	13185	N	PRO	F	522	79.335	65.838	23.164	1.00	59.07	7
ATOM	13186	CD	PRO	F	522	80.237	64.894	23.854	1.00	86.85	6
ATOM	13187	CA	PRO	F	522	78.118	66.037	23.976	1.00	58.98	6
ATOM	13188	CB	PRO	F	522	78.411	65.230	25.240	1.00	86.62	6
ATOM	13189	CG	PRO	F	522	79.293	64.138	24.743	1.00	87.27	6
ATOM	13190	C	PRO	F	522	77.711	67.474	24.316	1.00	58.44	6
ATOM	13191	O	PRO	F	522	76.787	67.687	25.092	1.00	58.06	8
ATOM	13192	N	ALA	F	523	78.406	68.450	23.752	1.00	61.86	7
ATOM	13193	CA	ALA	F	523	78.095	69.843	24.006	1.00	62.64	6
ATOM	13194	CB	ALA	F	523	79.094	70.420	25.008	1.00	67.65	6
ATOM	13195	C	ALA	F	523	78.183	70.574	22.667	1.00	63.46	6
ATOM	13196	O	ALA	F	523	78.866	70.028	21.777	1.00	63.50	8
ATOM	13197	OXT	ALA	F	523	77.588	71.666	22.509	1.00	70.13	8
ATOM	13198	CB	ALA	G	536	70.546	72.838	16.847	1.00	131.36	6
ATOM	13199	C	ALA	G	536	71.436	74.311	18.678	1.00	131.87	6
ATOM	13200	O	ALA	G	536	71.660	75.515	18.831	1.00	131.63	8
ATOM	13201	N	ALA	G	536	69.463	75.007	17.368	1.00	133.22	7
ATOM	13202	CA	ALA	G	536	70.180	73.839	17.954	1.00	132.70	6
ATOM	13203	N	THR	G	537	72.248	73.359	19.125	1.00	95.20	7
ATOM	13204	CA	THR	G	537	73.488	73.673	19.819	1.00	93.78	6
ATOM	13205	CB	THR	G	537	73.607	72.841	21.103	1.00	182.64	6
ATOM	13206	OG1	THR	G	537	72.380	72.939	21.840	1.00	183.52	8
ATOM	13207	CG2	THR	G	537	74.752	73.355	21.969	1.00	182.66	6

ATOM	13208	C	THR	G	537	74.683	73.396	18.893	1.00	92.06	6
ATOM	13209	O	THR	G	537	75.787	73.071	19.345	1.00	92.52	8
ATOM	13210	N	SER	G	538	74.437	73.542	17.590	1.00	112.89	7
ATOM	13211	CA	SER	G	538	75.440	73.328	16.547	1.00	110.32	6
ATOM	13212	CB	SER	G	538	74.779	73.283	15.160	1.00	35.57	6
ATOM	13213	OG	SER	G	538	73.626	72.468	15.132	1.00	33.65	8
ATOM	13214	C	SER	G	538	76.445	74.471	16.544	1.00	109.45	6
ATOM	13215	O	SER	G	538	77.627	74.282	16.819	1.00	109.31	8
ATOM	13216	N	ASP	G	539	75.936	75.656	16.217	1.00	117.37	7
ATOM	13217	CA	ASP	G	539	76.713	76.884	16.121	1.00	116.70	6
ATOM	13218	CB	ASP	G	539	76.184	77.922	17.114	1.00	173.02	6
ATOM	13219	CG	ASP	G	539	76.695	79.321	16.819	1.00	175.38	6
ATOM	13220	OD1	ASP	G	539	77.894	79.581	17.045	1.00	175.93	8
ATOM	13221	OD2	ASP	G	539	75.899	80.160	16.348	1.00	177.00	8
ATOM	13222	C	ASP	G	539	78.218	76.712	16.299	1.00	114.94	6
ATOM	13223	O	ASP	G	539	78.943	76.520	15.323	1.00	115.19	8
ATOM	13224	N	LEU	G	540	78.683	76.774	17.541	1.00	64.35	7
ATOM	13225	CA	LEU	G	540	80.111	76.649	17.842	1.00	61.65	6
ATOM	13226	CB	LEU	G	540	80.311	76.121	19.259	1.00	82.00	6
ATOM	13227	CG	LEU	G	540	81.765	76.224	19.698	1.00	80.94	6
ATOM	13228	CD1	LEU	G	540	81.986	77.620	20.251	1.00	81.27	6
ATOM	13229	CD2	LEU	G	540	82.081	75.173	20.741	1.00	80.77	6
ATOM	13230	C	LEU	G	540	80.907	75.764	16.884	1.00	60.56	6
ATOM	13231	O	LEU	G	540	81.986	76.143	16.444	1.00	60.17	8
ATOM	13232	N	ASN	G	541	80.376	74.582	16.586	1.00	66.76	7
ATOM	13233	CA	ASN	G	541	81.032	73.640	15.686	1.00	65.78	6
ATOM	13234	CB	ASN	G	541	80.039	72.588	15.216	1.00	75.75	6
ATOM	13235	CG	ASN	G	541	79.680	71.614	16.306	1.00	74.86	6
ATOM	13236	OD1	ASN	G	541	80.441	70.692	16.609	1.00	73.45	8
ATOM	13237	ND2	ASN	G	541	78.520	71.820	16.919	1.00	75.26	7
ATOM	13238	C	ASN	G	541	81.629	74.337	14.485	1.00	65.33	6
ATOM	13239	O	ASN	G	541	82.767	74.080	14.114	1.00	66.45	8
ATOM	13240	N	ASP	G	542	80.852	75.209	13.864	1.00	41.08	7
ATOM	13241	CA	ASP	G	542	81.360	75.950	12.726	1.00	41.48	6
ATOM	13242	CB	ASP	G	542	80.364	77.019	12.277	1.00	94.27	6
ATOM	13243	CG	ASP	G	542	79.244	76.449	11.452	1.00	95.35	6
ATOM	13244	OD1	ASP	G	542	79.533	75.643	10.543	1.00	94.76	8
ATOM	13245	OD2	ASP	G	542	78.080	76.817	11.703	1.00	96.59	8
ATOM	13246	C	ASP	G	542	82.693	76.612	13.087	1.00	41.73	6
ATOM	13247	O	ASP	G	542	83.748	76.150				

ATOM	13264	CZ	TYR	G	544	86.378	74.927	19.810	1.00	73.30	6
ATOM	13265	OH	TYR	G	544	86.658	75.226	21.119	1.00	74.86	8
ATOM	13266	C	TYR	G	544	86.398	74.746	13.430	1.00	69.44	6
ATOM	13267	O	TYR	G	544	87.586	74.615	13.157	1.00	70.07	8
ATOM	13268	N	ARG	G	545	85.439	74.487	12.551	1.00	56.19	7
ATOM	13269	CA	ARG	G	545	85.795	74.086	11.202	1.00	56.68	6
ATOM	13270	CB	ARG	G	545	84.541	73.820	10.352	1.00	106.98	6
ATOM	13271	CG	ARG	G	545	83.823	75.091	9.908	1.00	108.55	6
ATOM	13272	CD	ARG	G	545	82.671	74.871	8.937	1.00	109.66	6
ATOM	13273	NE	ARG	G	545	82.266	76.145	8.344	1.00	109.87	7
ATOM	13274	CZ	ARG	G	545	81.233	76.300	7.526	1.00	110.78	6
ATOM	13275	NH1	ARG	G	545	80.482	75.258	7.195	1.00	111.29	7
ATOM	13276	NH2	ARG	G	545	80.958	77.498	7.029	1.00	111.30	7
ATOM	13277	C	ARG	G	545	86.565	75.298	10.647	1.00	56.31	6
ATOM	13278	O	ARG	G	545	87.674	75.155	10.134	1.00	56.35	8
ATOM	13279	N	ARG	G	546	85.978	76.491	10.783	1.00	67.98	7
ATOM	13280	CA	ARG	G	546	86.588	77.732	10.304	1.00	68.08	6
ATOM	13281	CB	ARG	G	546	85.836	78.939	10.847	1.00	83.15	6
ATOM	13282	CG	ARG	G	546	84.614	79.331	10.071	1.00	84.94	6
ATOM	13283	CD	ARG	G	546	84.037	80.602	10.665	1.00	87.67	6
ATOM	13284	NE	ARG	G	546	85.082	81.578	10.987	1.00	90.57	7
ATOM	13285	CZ	ARG	G	546	84.864	82.775	11.534	1.00	91.12	6
ATOM	13286	NH1	ARG	G	546	83.628	83.168	11.831	1.00	91.08	7
ATOM	13287	NH2	ARG	G	546	85.886	83.584	11.791	1.00	91.46	7
ATOM	13288	C	ARG	G	546	88.031	77.820	10.755	1.00	67.70	6
ATOM	13289	O	ARG	G	546	88.828	78.556	10.174	1.00	67.44	8
ATOM	13290	N	LEU	G	547	88.341	77.073	11.812	1.00	84.34	7
ATOM	13291	CA	LEU	G	547	89.677	77.011	12.393	1.00	83.70	6
ATOM	13292	CB	LEU	G	547	89.580	76.874	13.913	1.00	76.64	6
ATOM	13293	CG	LEU	G	547	90.889	76.614	14.661	1.00	76.80	6
ATOM	13294	CD1	LEU	G	547	91.608	77.924	14.896	1.00	77.40	6
ATOM	13295	CD2	LEU	G	547	90.603	75.952	15.985	1.00	76.94	6
ATOM	13296	C	LEU	G	547	90.400	75.794	11.841	1.00	83.08	6
ATOM	13297	O	LEU	G	547	91.332	75.898	11.045	1.00	83.25	8
ATOM	13298	N	ILE	G	548	89.950	74.631	12.287	1.00	54.14	7
ATOM	13299	CA	ILE	G	548	90.523	73.363	11.868	1.00	53.72	6
ATOM	13300	CB	ILE	G	548	89.540	72.202	12.135	1.00	76.27	6
ATOM	13301	CG2	ILE	G	548	90.237	70.884	11.902	1.00	75.88	6
ATOM	13302	CG1	ILE	G	548	88.996	72.282	13.569	1.00	75.82	6
ATOM	13303	CD1	ILE	G	548	90.056	72.520	14.639	1.00	75.63	6
ATOM	13304	C	ILE	G	548	90.911	73.352	10.391	1.00	53.09	6
ATOM	13305	O	ILE	G	548	91.976	72.862	10.039	1.00	52.98	8
ATOM	13306	N	ASN	G	549	90.050	73.892	9.533	1.00	131.40	7
ATOM	13307	CA	ASN	G	549	90.325	73.931	8.096	1.00	131.28	6
ATOM	13308	CB	ASN	G	549	89.021	74.162	7.300	1.00	74.52	6
ATOM	13309	CG	ASN	G	549	88.071	72.951	7.320	1.00	73.67	6
ATOM	13310	OD1	ASN	G	549	86.958	73.014	6.783	1.00	72.98	8
ATOM	13311	ND2	ASN	G	549	88.506	71.856	7.932	1.00	72.43	7
ATOM	13312	C	ASN	G	549	91.348	75.024	7.746	1.00	131.21	6
ATOM	13313	O	ASN	G	549	92.219	74.820	6.897	1.00	131.77	8
ATOM	13314	N	ARG	G	550	91.241	76.178	8.405	1.00	46.50	7
ATOM	13315	CA	ARG	G	550	92.141	77.307	8.166	1.00	46.38	6
ATOM	13316	CB	ARG	G	550	91.635	78.564	8.871	1.00	133.91	6
ATOM	13317	CG	ARG	G	550	90.706	79.418	8.036	1.00	135.97	6
ATOM	13318	CD	ARG	G	550	91.446	80.080	6.888	1.00	137.05	6
ATOM	13319	NE	ARG	G	550	90.559	80.933	6.102	1.00	138.25	7

ATOM	13320	CZ	ARG	G	550	90.940	81.628	5.037	1.00138.54	6
ATOM	13321	NH1	ARG	G	550	92.199	81.577	4.622	1.00139.13	7
ATOM	13322	NH2	ARG	G	550	90.058	82.373	4.382	1.00138.59	7
ATOM	13323	C	ARG	G	550	93.533	77.004	8.655	1.00 45.82	6
ATOM	13324	O	ARG	G	550	94.505	77.441	8.054	1.00 45.25	8
ATOM	13325	N	ASN	G	551	93.622	76.266	9.758	1.00 60.10	7
ATOM	13326	CA	ASN	G	551	94.910	75.894	10.327	1.00 61.10	6
ATOM	13327	CB	ASN	G	551	94.710	75.198	11.680	1.00 37.67	6
ATOM	13328	CG	ASN	G	551	96.031	74.889	12.395	1.00 36.35	6
ATOM	13329	OD1	ASN	G	551	96.508	73.748	12.391	1.00 35.15	8
ATOM	13330	ND2	ASN	G	551	96.624	75.908	13.013	1.00 35.68	7
ATOM	13331	C	ASN	G	551	95.614	74.966	9.339	1.00 63.12	6
ATOM	13332	O	ASN	G	551	96.783	74.615	9.516	1.00 63.81	8
ATOM	13333	N	ASN	G	552	94.891	74.579	8.290	1.00 69.42	7
ATOM	13334	CA	ASN	G	552	95.436	73.705	7.256	1.00 70.97	6
ATOM	13335	CB	ASN	G	552	94.442	72.591	6.906	1.00117.93	6
ATOM	13336	CG	ASN	G	552	94.372	71.515	7.976	1.00118.17	6
ATOM	13337	OD1	ASN	G	552	95.388	70.926	8.352	1.00118.04	8
ATOM	13338	ND2	ASN	G	552	93.169	71.248	8.467	1.00118.44	7
ATOM	13339	C	ASN	G	552	95.805	74.486	6.003	1.00 71.92	6
ATOM	13340	O	ASN	G	552	96.810	74.186	5.368	1.00 71.09	8
ATOM	13341	N	ARG	G	553	94.998	75.484	5.642	1.00115.12	7
ATOM	13342	CA	ARG	G	553	95.306	76.297	4.467	1.00116.95	6
ATOM	13343	CB	ARG	G	553	94.268	77.404	4.259	1.00201.34	6
ATOM	13344	CG	ARG	G	553	93.017	76.966	3.510	1.00204.50	6
ATOM	13345	CD	ARG	G	553	92.387	78.151	2.778	1.00207.23	6
ATOM	13346	NE	ARG	G	553	91.118	77.808	2.136	1.00208.87	7
ATOM	13347	CZ	ARG	G	553	90.443	78.621	1.327	1.00208.87	6
ATOM	13348	NH1	ARG	G	553	90.916	79.831	1.051	1.00208.87	7
ATOM	13349	NH2	ARG	G	553	89.291	78.229	0.797	1.00208.87	7
ATOM	13350	C	ARG	G	553	96.686	76.922	4.657	1.00116.81	6
ATOM	13351	O	ARG	G	553	97.207	77.597	3.767	1.00116.82	8
ATOM	13352	N	LEU	G	554	97.259	76.702	5.839	1.00 77.44	7
ATOM	13353	CA	LEU	G	554	98.590	77.188	6.173	1.00 76.30	6
ATOM	13354	CB	LEU	G	554	98.541	78.218	7.299	1.00 53.28	6
ATOM	13355	CG	LEU	G	554	97.775	79.499	6.949	1.00 51.92	6
ATOM	13356	CD1	LEU	G	554	98.280	80.623	7.847	1.00 51.49	6
ATOM	13357	CD2	LEU	G	554	97.969	79.863	5.470	1.00 50.96	6
ATOM	13358	C	LEU	G	554	99.375	75.976	6.607	1.00 76.50	6
ATOM	13359	O	LEU	G	554	100.577	76.036	6.812	1.00 76.74	8
ATOM	13360	N	LYS	G	555	98.665	74.868	6.757	1.00106.94	7
ATOM	13361	CA	LYS	G	555	99.287	73.615	7.128	1.00108.58	6
ATOM	13362	CB	LYS	G	555	98.342	72.804	8.016	1.00 80.09	6
ATOM	13363	CG	LYS	G	555	98.939	71.538	8.586	1.00 79.42	6
ATOM	13364	CD	LYS	G	555	100.243	71.801	9.308	1.00 78.74	6
ATOM	13365	CE	LYS	G	555	100.636	70.601	10.148	1.00 78.94	6
ATOM	13366	NZ	LYS	G	555	99.639	70.349	11.234	1.00 77.84	7
ATOM	13367	C	LYS	G	555	99.545	72.906	5.797	1.00110.46	6
ATOM	13368	O	LYS	G	555	100.151	71.832	5.747	1.00111.14	8
ATOM	13369	N	LYS	G	556	99.075	73.539	4.721	1.00135.11	7
ATOM	13370	CA	LYS	G	556	99.233	73.037	3.357	1.00135.51	6
ATOM	13371	CB	LYS	G	556	97.868	72.837	2.687	1.00142.13	6
ATOM	13372	CG	LYS	G	556	97.028	71.713	3.290	1.00142.48	6
ATOM	13373	CD	LYS	G	556	95.623	71.672	2.688	1.00142.59	6
ATOM	13374	CE	LYS	G	556	94.741	70.623	3.364	1.00142.54	6
ATOM	13375	NZ	LYS	G	556	93.332	70.658	2.864	1.00142.10	7

ATOM	13376	C	LYS	G	556	100.049	74.048	2.560	1.00135.82	6
ATOM	13377	O	LYS	G	556	100.940	73.674	1.801	1.00136.26	8
ATOM	13378	N	LEU	G	557	99.737	75.330	2.731	1.00 76.16	7
ATOM	13379	CA	LEU	G	557	100.470	76.384	2.040	1.00 77.22	6
ATOM	13380	CB	LEU	G	557	99.564	77.602	1.785	1.00 59.29	6
ATOM	13381	CG	LEU	G	557	100.192	78.906	1.253	1.00 58.84	6
ATOM	13382	CD1	LEU	G	557	101.043	78.626	0.034	1.00 57.92	6
ATOM	13383	CD2	LEU	G	557	99.105	79.909	0.923	1.00 58.61	6
ATOM	13384	C	LEU	G	557	101.679	76.772	2.893	1.00 78.63	6
ATOM	13385	O	LEU	G	557	101.893	77.940	3.218	1.00 79.24	8
ATOM	13386	N	LEU	G	558	102.464	75.769	3.265	1.00169.46	7
ATOM	13387	CA	LEU	G	558	103.656	75.990	4.070	1.00171.40	6
ATOM	13388	CB	LEU	G	558	103.289	76.168	5.547	1.00136.45	6
ATOM	13389	CG	LEU	G	558	103.083	77.619	5.980	1.00135.88	6
ATOM	13390	CD1	LEU	G	558	102.785	77.695	7.467	1.00136.62	6
ATOM	13391	CD2	LEU	G	558	104.343	78.398	5.665	1.00134.39	6
ATOM	13392	C	LEU	G	558	104.650	74.852	3.907	1.00172.39	6
ATOM	13393	O	LEU	G	558	105.807	75.084	3.554	1.00173.07	8
ATOM	13394	N	ALA	G	559	104.204	73.624	4.161	1.00188.38	7
ATOM	13395	CA	ALA	G	559	105.076	72.467	4.008	1.00189.87	6
ATOM	13396	CB	ALA	G	559	104.358	71.196	4.429	1.00 39.70	6
ATOM	13397	C	ALA	G	559	105.446	72.403	2.534	1.00190.61	6
ATOM	13398	O	ALA	G	559	106.343	71.660	2.133	1.00191.14	8
ATOM	13399	N	GLN	G	560	104.733	73.196	1.738	1.00128.76	7
ATOM	13400	CA	GLN	G	560	104.964	73.284	0.302	1.00128.89	6
ATOM	13401	CB	GLN	G	560	103.797	72.657	-0.469	1.00121.79	6
ATOM	13402	CG	GLN	G	560	103.586	71.179	-0.175	1.00122.17	6
ATOM	13403	CD	GLN	G	560	102.593	70.532	-1.118	1.00122.43	6
ATOM	13404	OE1	GLN	G	560	101.448	70.964	-1.221	1.00123.35	8
ATOM	13405	NE2	GLN	G	560	103.028	69.487	-1.810	1.00122.60	7
ATOM	13406	C	GLN	G	560	105.134	74.746	-0.110	1.00128.84	6
ATOM	13407	O	GLN	G	560	104.984	75.654	0.714	1.00129.24	8
ATOM	13408	N	GLY	G	561	105.451	74.957	-1.385	1.00190.26	7
ATOM	13409	CA	GLY	G	561	105.647	76.296	-1.916	1.00190.02	6
ATOM	13410	C	GLY	G	561	104.978	77.392	-1.114	1.00189.66	6
ATOM	13411	O	GLY	G	561	103.755	77.532	-1.131	1.00190.29	8
ATOM	13412	N	ALA	G	562	105.787	78.174	-0.411	1.00119.23	7
ATOM	13413	CA	ALA	G	562	105.265	79.251	0.412	1.00117.96	6
ATOM	13414	CB	ALA	G	562	105.760	79.081	1.844	1.00182.56	6
ATOM	13415	C	ALA	G	562	105.647	80.634	-0.110	1.00117.28	6
ATOM	13416	O	ALA	G	562	106.755	81.112	0.132	1.00117.09	8
ATOM	13417	N</								

ATOM	13432	O	GLU	G	564	103.463	85.077	2.832	1.00	81.23	8
ATOM	13433	N	ILE	G	565	104.485	86.351	1.288	1.00	64.47	7
ATOM	13434	CA	ILE	G	565	103.437	87.359	1.277	1.00	63.84	6
ATOM	13435	CB	ILE	G	565	103.437	88.160	-0.035	1.00	111.42	6
ATOM	13436	CG2	ILE	G	565	102.234	89.085	-0.081	1.00	111.05	6
ATOM	13437	CG1	ILE	G	565	104.728	88.969	-0.143	1.00	111.53	6
ATOM	13438	CD1	ILE	G	565	104.949	89.930	1.017	1.00	111.89	6
ATOM	13439	C	ILE	G	565	102.087	86.682	1.449	1.00	64.00	6
ATOM	13440	O	ILE	G	565	101.221	87.189	2.151	1.00	63.89	8
ATOM	13441	N	ILE	G	566	101.916	85.526	0.819	1.00	179.33	7
ATOM	13442	CA	ILE	G	566	100.668	84.792	0.940	1.00	180.03	6
ATOM	13443	CB	ILE	G	566	100.147	84.363	-0.450	1.00	75.12	6
ATOM	13444	CG2	ILE	G	566	98.889	83.512	-0.315	1.00	75.35	6
ATOM	13445	CG1	ILE	G	566	99.797	85.609	-1.266	1.00	74.49	6
ATOM	13446	CD1	ILE	G	566	98.646	86.422	-0.679	1.00	73.42	6
ATOM	13447	C	ILE	G	566	100.833	83.587	1.870	1.00	180.68	6
ATOM	13448	O	ILE	G	566	100.608	82.437	1.498	1.00	181.17	8
ATOM	13449	N	ILE	G	567	101.247	83.895	3.093	1.00	98.19	7
ATOM	13450	CA	ILE	G	567	101.444	82.939	4.179	1.00	98.23	6
ATOM	13451	CB	ILE	G	567	102.750	82.063	4.003	1.00	43.04	6
ATOM	13452	CG2	ILE	G	567	103.968	82.704	4.664	1.00	42.72	6
ATOM	13453	CG1	ILE	G	567	102.533	80.692	4.646	1.00	41.40	6
ATOM	13454	CD1	ILE	G	567	102.184	80.738	6.100	1.00	40.12	6
ATOM	13455	C	ILE	G	567	101.560	83.890	5.365	1.00	99.77	6
ATOM	13456	O	ILE	G	567	101.225	83.556	6.501	1.00	99.67	8
ATOM	13457	N	ARG	G	568	102.019	85.101	5.059	1.00	204.23	7
ATOM	13458	CA	ARG	G	568	102.168	86.161	6.046	1.00	205.67	6
ATOM	13459	CB	ARG	G	568	103.064	87.285	5.509	1.00	199.88	6
ATOM	13460	CG	ARG	G	568	104.496	86.884	5.172	1.00	201.87	6
ATOM	13461	CD	ARG	G	568	105.309	86.559	6.417	1.00	202.96	6
ATOM	13462	NE	ARG	G	568	106.711	86.302	6.095	1.00	204.01	7
ATOM	13463	CZ	ARG	G	568	107.638	85.983	6.993	1.00	204.35	6
ATOM	13464	NH1	ARG	G	568	107.316	85.880	8.276	1.00	205.26	7
ATOM	13465	NH2	ARG	G	568	108.889	85.769	6.610	1.00	203.67	7
ATOM	13466	C	ARG	G	568	100.771	86.716	6.287	1.00	205.52	6
ATOM	13467	O	ARG	G	568	100.192	86.521	7.356	1.00	205.56	8
ATOM	13468	N	ASN	G	569	100.236	87.401	5.277	1.00	172.62	7
ATOM	13469	CA	ASN	G	569	98.904	87.986	5.370	1.00	172.19	6
ATOM	13470	CB	ASN	G	569	98.698	89.053	4.284	1.00	144.53	6
ATOM	13471	CG	ASN	G	569	98.178	88.475	2.983	1.00	144.70	6
ATOM	13472	OD1	ASN	G	569	98.792	87.589	2.394	1.00	143.89	8
ATOM	13473	ND2	ASN	G	569	97.036	88.978	2.528	1.00	144.81	7
ATOM	13474	C	ASN	G	569	97.859	86.885	5.228	1.00	171.70	6
ATOM	13475	O	ASN	G	569	96.660	87.155	5.133	1.00	172.20	8
ATOM	13476	N	GLU	G	570	98.326	85.640	5.207	1.00	59.76	7
ATOM	13477	CA	GLU	G	570	97.435	84.490	5.100	1.00	58.89	6
ATOM	13478	CB	GLU	G	570	98.068	83.409	4.220	1.00	155.66	6
ATOM	13479	CG	GLU	G	570	97.969	83.685	2.732	1.00	156.86	6
ATOM	13480	CD	GLU	G	570	96.643	83.254	2.142	1.00	157.48	6
ATOM	13481	OE1	GLU	G	570	95.591	83.672	2.667	1.00	158.14	8
ATOM	13482	OE2	GLU	G	570	96.651	82.496	1.150	1.00	157.84	8
ATOM	13483	C	GLU	G	570	97.191	83.944	6.497	1.00	57.95	6
ATOM	13484	O	GLU	G	570	96.143	83.369	6.777	1.00	57.43	8
ATOM	13485	N	LYS	G	571	98.181	84.150	7.364	1.00	91.40	7
ATOM	13486	CA	LYS	G	571	98.144	83.700	8.755	1.00	90.81	6
ATOM	13487	CB	LYS	G	571	99.574	83.532	9.271	1.00	152.58	6

ATOM	13488	CG	LYS	G	571	99.697	82.781	10.582	1.00153.34	6
ATOM	13489	CD	LYS	G	571	101.152	82.416	10.836	1.00154.51	6
ATOM	13490	CE	LYS	G	571	101.320	81.590	12.097	1.00154.99	6
ATOM	13491	NZ	LYS	G	571	101.051	82.367	13.334	1.00155.02	7
ATOM	13492	C	LYS	G	571	97.378	84.684	9.640	1.00 89.48	6
ATOM	13493	O	LYS	G	571	97.029	84.368	10.777	1.00 88.42	8
ATOM	13494	N	ARG	G	572	97.131	85.879	9.110	1.00 94.32	7
ATOM	13495	CA	ARG	G	572	96.374	86.893	9.825	1.00 93.38	6
ATOM	13496	CB	ARG	G	572	96.379	88.210	9.061	1.00 83.79	6
ATOM	13497	CG	ARG	G	572	95.653	88.124	7.723	1.00 84.66	6
ATOM	13498	CD	ARG	G	572	95.120	89.481	7.279	1.00 86.66	6
ATOM	13499	NE	ARG	G	572	93.890	89.858	7.979	1.00 88.48	7
ATOM	13500	CZ	ARG	G	572	93.401	91.100	8.048	1.00 89.00	6
ATOM	13501	NH1	ARG	G	572	94.034	92.114	7.463	1.00 89.06	7
ATOM	13502	NH2	ARG	G	572	92.271	91.332	8.707	1.00 89.00	7
ATOM	13503	C	ARG	G	572	94.949	86.360	9.853	1.00 93.21	6
ATOM	13504	O	ARG	G	572	93.986	87.129	9.879	1.00 93.59	8
ATOM	13505	N	MET	G	573	94.826	85.036	9.823	1.00126.59	7
ATOM	13506	CA	MET	G	573	93.528	84.381	9.825	1.00125.83	6
ATOM	13507	CB	MET	G	573	93.123	84.034	8.391	1.00190.37	6
ATOM	13508	CG	MET	G	573	93.054	85.242	7.469	1.00192.13	6
ATOM	13509	SD	MET	G	573	92.546	84.815	5.797	1.00193.34	16
ATOM	13510	CE	MET	G	573	94.118	84.474	5.040	1.00193.04	6
ATOM	13511	C	MET	G	573	93.488	83.128	10.695	1.00124.08	6
ATOM	13512	O	MET	G	573	92.455	82.818	11.276	1.00123.42	8
ATOM	13513	N	LEU	G	574	94.599	82.402	10.787	1.00 97.74	7
ATOM	13514	CA	LEU	G	574	94.617	81.199	11.616	1.00 95.67	6
ATOM	13515	CB	LEU	G	574	96.014	80.610	11.747	1.00 46.39	6
ATOM	13516	CG	LEU	G	574	95.974	79.591	12.883	1.00 44.93	6
ATOM	13517	CD1	LEU	G	574	94.919	78.560	12.538	1.00 44.33	6
ATOM	13518	CD2	LEU	G	574	97.321	78.931	13.096	1.00 45.55	6
ATOM	13519	C	LEU	G	574	94.166	81.567	13.002	1.00 94.64	6
ATOM	13520	O	LEU	G	574	93.137	81.104	13.480	1.00 94.77	8
ATOM	13521	N	GLN	G	575	94.984	82.382	13.654	1.00113.35	7
ATOM	13522	CA	GLN	G	575	94.683	82.846	14.991	1.00112.36	6
ATOM	13523	CB	GLN	G	575	95.720	83.872	15.441	1.00 73.05	6
ATOM	13524	CG	GLN	G	575	95.247	84.677	16.625	1.00 72.56	6
ATOM	13525	CD	GLN	G	575	96.168	85.805	16.985	1.00 72.65	6
ATOM	13526	OE1	GLN	G	575	97.267	85.581	17.485	1.00 74.21	8
ATOM	13527	NE2	GLN	G	575	95.728	87.034	16.729	1.00 71.99	7
ATOM	13528	C	GLN	G	575	93.304	83.495	14.987	1.00111.62	6
ATOM	13529	O	GLN	G	575	92.567	83.415	15.968	1.00111.83	8
ATOM	13530	N	GLU	G	576	92.969	84.138	13.871	1.00 72.08	7
ATOM	13531	CA	GLU	G	576	91.690	84.813	13.715	1.00 70.28	6
ATOM	13532	CB	GLU	G	576	91.587	85.392	12.309	1.00 94.12	6
ATOM	13533	CG	GLU	G	576	90.913	86.732	12.248	1.00 94.40	6
ATOM	13534	CD	GLU	G	576	91.881	87.823	11.883	1.00 94.32	6
ATOM	13535	OE1	GLU	G	576	92.966	87.871	12.500	1.00 94.33	8
ATOM	13536	OE2	GLU	G	576	91.557	88.631	10.986	1.00 95.06	8
ATOM	13537	C	GLU	G	576	90.545	83.828	13.950	1.00 69.83	6
ATOM	13538	O	GLU	G	576	89.420	84.225	14.253	1.00 69.87	8
ATOM	13539	N	ALA	G	577	90.846	82.541	13.793	1.00 73.59	7
ATOM	13540	CA	ALA	G	577	89.867	81.476	13.992	1.00 72.77	6
ATOM	13541	CB	ALA	G	577	90.053	80.378	12.956	1.00 96.82	6
ATOM	13542	C	ALA	G	577	90.059	80.916	15.388	1.00 72.09	6
ATOM	13543	O	ALA	G	577	89.737	79.760	15.663	1.00 72.23	8



ATOM	13544	N	VAL	G	578	90.623	81.754	16.250	1.00	74.31	7
ATOM	13545	CA	VAL	G	578	90.854	81.437	17.654	1.00	74.39	6
ATOM	13546	CB	VAL	G	578	92.324	81.106	17.942	1.00	74.55	6
ATOM	13547	CG1	VAL	G	578	92.443	80.437	19.311	1.00	73.52	6
ATOM	13548	CG2	VAL	G	578	92.875	80.215	16.850	1.00	73.93	6
ATOM	13549	C	VAL	G	578	90.496	82.751	18.322	1.00	73.71	6
ATOM	13550	O	VAL	G	578	89.795	82.790	19.333	1.00	72.55	8
ATOM	13551	N	ASP	G	579	90.985	83.828	17.714	1.00	50.02	7
ATOM	13552	CA	ASP	G	579	90.714	85.186	18.161	1.00	51.25	6
ATOM	13553	CB	ASP	G	579	91.654	86.179	17.462	1.00	90.20	6
ATOM	13554	CG	ASP	G	579	93.040	86.228	18.088	1.00	90.68	6
ATOM	13555	OD1	ASP	G	579	93.504	85.186	18.597	1.00	91.76	8
ATOM	13556	OD2	ASP	G	579	93.670	87.311	18.051	1.00	90.12	8
ATOM	13557	C	ASP	G	579	89.274	85.455	17.737	1.00	51.80	6
ATOM	13558	O	ASP	G	579	88.894	86.592	17.413	1.00	51.23	8
ATOM	13559	N	ALA	G	580	88.500	84.370	17.720	1.00	91.07	7
ATOM	13560	CA	ALA	G	580	87.089	84.362	17.351	1.00	92.32	6
ATOM	13561	CB	ALA	G	580	86.935	84.093	15.850	1.00	107.39	6
ATOM	13562	C	ALA	G	580	86.424	83.247	18.161	1.00	93.13	6
ATOM	13563	O	ALA	G	580	85.423	83.470	18.846	1.00	93.04	8
ATOM	13564	N	VAL	G	581	86.991	82.045	18.074	1.00	139.52	7
ATOM	13565	CA	VAL	G	581	86.478	80.904	18.820	1.00	139.99	6
ATOM	13566	CB	VAL	G	581	87.451	79.722	18.766	1.00	30.99	6
ATOM	13567	CG1	VAL	G	581	87.210	78.783	19.913	1.00	30.67	6
ATOM	13568	CG2	VAL	G	581	87.266	78.980	17.485	1.00	30.60	6
ATOM	13569	C	VAL	G	581	86.326	81.339	20.261	1.00	141.61	6
ATOM	13570	O	VAL	G	581	85.299	81.088	20.891	1.00	142.75	8
ATOM	13571	N	ILE	G	582	87.362	81.992	20.778	1.00	51.60	7
ATOM	13572	CA	ILE	G	582	87.338	82.489	22.145	1.00	51.68	6
ATOM	13573	CB	ILE	G	582	88.734	82.902	22.568	1.00	65.92	6
ATOM	13574	CG2	ILE	G	582	88.852	82.838	24.071	1.00	66.06	6
ATOM	13575	CG1	ILE	G	582	89.744	81.937	21.949	1.00	67.19	6
ATOM	13576	CD1	ILE	G	582	91.169	82.363	22.122	1.00	69.30	6
ATOM	13577	C	ILE	G	582	86.383	83.686	22.181	1.00	52.28	6
ATOM	13578	O	ILE	G	582	85.562	83.837	21.273	1.00	51.26	8
ATOM	13579	N	ASP	G	583	86.479	84.523	23.216	1.00	131.06	7
ATOM	13580	CA	ASP	G	583	85.603	85.691	23.346	1.00	132.06	6
ATOM	13581	CB	ASP	G	583	86.151	86.678	24.402	1.00	83.72	6
ATOM	13582	CG	ASP	G	583	86.781	85.974	25.620	1.00	83.81	6
ATOM	13583	OD1	ASP	G	583	86.234	84.953	26.086	1.00	82.85	8
ATOM	13584	OD2	ASP	G	583	87.826	86.450	26.126	1.00	83.67	8
ATOM	13585	C	ASP	G	583	85.466	86.397	21.990	1.00	133.07	6
ATOM	13586	O	ASP	G	583	86.054	87.457	21.771	1.00	133.98	8
ATOM	13587	N	ASN	G	584	84.684	85.793	21.091	1.00	37.65	7
ATOM	13588	CA	ASN	G	584	84.455	86.310	19.743	1.00	37.79	6
ATOM	13589	CB	ASN	G	584	83.503	85.395	18.987	1.00	75.68	6
ATOM	13590	CG	ASN	G	584	83.340	85.801	17.541	1.00	76.20	6
ATOM	13591	OD1	ASN	G	584	83.192	86.982	17.229	1.00	75.74	8
ATOM	13592	ND2	ASN	G	584	83.350	84.819	16.646	1.00	76.61	7
ATOM	13593	C	ASN	G	584	83.883	87.720	19.741	1.00	38.41	6
ATOM	13594	O	ASN	G	584	82.706	87.920	19.452	1.00	39.07	8
ATOM	13595	N	GLY	G	585	84.724	88.696	20.058	1.00	115.74	7
ATOM	13596	CA	GLY	G	585	84.278	90.074	20.082	1.00	118.24	6
ATOM	13597	C	GLY	G	585	85.223	90.972	19.314	1.00	119.97	6
ATOM	13598	O	GLY	G	585	85.832	91.871	19.890	1.00	120.15	8
ATOM	13599	N	ARG	G	586	85.356	90.714	18.015	1.00	118.75	7

ATOM	13600	CA	ARG	G	586	86.222	91.505	17.140	1.00120.54	6
ATOM	13601	CB	ARG	G	586	87.639	90.906	17.073	1.00106.36	6
ATOM	13602	CG	ARG	G	586	88.602	91.620	16.099	1.00107.18	6
ATOM	13603	CD	ARG	G	586	89.992	90.977	16.115	1.00107.40	6
ATOM	13604	NE	ARG	G	586	90.897	91.561	15.126	1.00107.01	7
ATOM	13605	CZ	ARG	G	586	92.177	91.220	14.984	1.00107.15	6
ATOM	13606	NH1	ARG	G	586	92.715	90.294	15.771	1.00106.98	7
ATOM	13607	NH2	ARG	G	586	92.924	91.800	14.051	1.00106.67	7
ATOM	13608	C	ARG	G	586	85.612	91.529	15.747	1.00120.97	6
ATOM	13609	O	ARG	G	586	84.997	90.555	15.325	1.00121.83	8
ATOM	13610	N	ARG	G	587	85.788	92.648	15.050	1.00104.27	7
ATOM	13611	CA	ARG	G	587	85.271	92.843	13.701	1.00104.71	6
ATOM	13612	CB	ARG	G	587	86.153	92.109	12.676	1.00114.96	6
ATOM	13613	CG	ARG	G	587	86.009	90.585	12.626	1.00115.33	6
ATOM	13614	CD	ARG	G	587	87.070	89.850	13.451	1.00115.65	6
ATOM	13615	NE	ARG	G	587	86.981	88.399	13.267	1.00116.31	7
ATOM	13616	CZ	ARG	G	587	87.703	87.500	13.932	1.00116.40	6
ATOM	13617	NH1	ARG	G	587	88.587	87.884	14.845	1.00116.24	7
ATOM	13618	NH2	ARG	G	587	87.538	86.209	13.684	1.00116.24	7
ATOM	13619	C	ARG	G	587	83.807	92.439	13.508	1.00104.86	6
ATOM	13620	O	ARG	G	587	83.000	93.239	13.032	1.00105.52	8
ATOM	13621	N	GLY	G	588	83.476	91.204	13.878	1.00147.52	7
ATOM	13622	CA	GLY	G	588	82.123	90.693	13.742	1.00146.07	6
ATOM	13623	C	GLY	G	588	82.143	89.457	12.867	1.00144.98	6
ATOM	13624	O	GLY	G	588	82.038	89.563	11.647	1.00145.06	8
ATOM	13625	N	SER	G	589	82.271	88.284	13.480	1.00 77.21	7
ATOM	13626	CA	SER	G	589	82.338	87.037	12.718	1.00 76.00	6
ATOM	13627	CB	SER	G	589	83.639	86.302	13.050	1.00 56.13	6
ATOM	13628	OG	SER	G	589	83.756	86.073	14.445	1.00 55.41	8
ATOM	13629	C	SER	G	589	81.160	86.070	12.868	1.00 75.43	6
ATOM	13630	O	SER	G	589	81.151	85.207	13.751	1.00 75.27	8
ATOM	13631	N	PRO	G	590	80.146	86.209	11.996	1.00 65.35	7
ATOM	13632	CD	PRO	G	590	79.925	87.427	11.189	1.00140.99	6
ATOM	13633	CA	PRO	G	590	78.944	85.368	11.990	1.00 65.07	6
ATOM	13634	CB	PRO	G	590	77.860	86.350	11.568	1.00140.82	6
ATOM	13635	CG	PRO	G	590	78.572	87.164	10.539	1.00140.67	6
ATOM	13636	C	PRO	G	590	79.054	84.193	11.015	1.00 64.88	6
ATOM	13637	O	PRO	G	590	79.968	83.371	11.099	1.00 64.41	8
ATOM	13638	N	VAL	G	591	78.096	84.132	10.095	1.00120.37	7
ATOM	13639	CA	VAL	G	591	78.040	83.099	9.071	1.00120.69	6
ATOM	13640	CB	VAL	G	591	77.004	81.994	9.424	1.00 83.72	6
ATOM	13641	CG1	VAL	G	591	75.593	82.547	9.375	1.00 83.05	6
ATOM	13642	CG2	VAL	G	591	77.144	80.835	8.474	1.00 83.74	6
ATOM	13643	C	VAL	G	591	77.632	83.792	7.775	1.00120.85	6
ATOM	13644	O	VAL	G	591	77.204	84.948	7.796	1.00120.97	8
ATOM	13645	N	THR	G	592	77.770	83.088	6.655	1.00117.86	7
ATOM	13646	CA	THR	G	592	77.432	83.631	5.339	1.00117.55	6
ATOM	13647	CB	THR	G	592	75.935	83.397	4.992	1.00124.78	6
ATOM	13648	OG1	THR	G	592	75.108	83.952	6.023	1.00125.06	8
ATOM	13649	CG2	THR	G	592	75.641	81.905	4.844	1.00123.79	6
ATOM	13650	C	THR	G	592	77.740	85.128	5.222	1.00117.06	6
ATOM	13651	O	THR	G	592	76.832	85.958	5.169	1.00117.05	8
ATOM	13652	N	ASN	G	593	79.030	85.459	5.185	1.00166.11	7
ATOM	13653	CA	ASN	G	593	79.479	86.845	5.066	1.00166.57	6
ATOM	13654	CB	ASN	G	593	80.903	86.986	5.615	1.00110.57	6
ATOM	13655	CG	ASN	G	593	80.951	86.946	7.131	1.00110.95	6

ATOM	13656	OD1	ASN	G	593	80.512	87.881	7.806	1.00110.65	8
ATOM	13657	ND2	ASN	G	593	81.484	85.858	7.676	1.00111.38	7
ATOM	13658	C	ASN	G	593	79.461	87.285	3.603	1.00166.40	6
ATOM	13659	O	ASN	G	593	79.396	86.454	2.698	1.00167.00	8
ATOM	13660	N	PRO	G	594	79.511	88.605	3.352	0.00 83.88	7
ATOM	13661	CD	PRO	G	594	79.851	89.122	2.011	0.00 83.46	6
ATOM	13662	CA	PRO	G	594	79.604	89.677	4.348	0.00 83.09	6
ATOM	13663	CB	PRO	G	594	80.494	90.695	3.658	0.00 83.02	6
ATOM	13664	CG	PRO	G	594	79.994	90.620	2.253	0.00 83.14	6
ATOM	13665	C	PRO	G	594	78.246	90.275	4.731	0.00 82.44	6
ATOM	13666	O	PRO	G	594	78.135	90.983	5.732	0.00 82.37	8
ATOM	13667	N	GLY	G	595	77.226	89.989	3.926	0.00 81.94	7
ATOM	13668	CA	GLY	G	595	75.892	90.511	4.178	0.00 81.22	6
ATOM	13669	C	GLY	G	595	75.498	90.623	5.639	0.00 80.87	6
ATOM	13670	O	GLY	G	595	75.834	89.757	6.449	0.00 80.75	8
ATOM	13671	N	SER	G	596	74.785	91.696	5.974	0.00 80.35	7
ATOM	13672	CA	SER	G	596	74.330	91.933	7.342	0.00 79.99	6
ATOM	13673	CB	SER	G	596	73.318	93.080	7.370	0.00 80.14	6
ATOM	13674	OG	SER	G	596	72.193	92.787	6.560	0.00 80.12	8
ATOM	13675	C	SER	G	596	73.690	90.666	7.897	0.00 79.81	6
ATOM	13676	O	SER	G	596	73.007	89.944	7.170	0.00 79.83	8
ATOM	13677	N	GLU	G	597	73.904	90.405	9.185	1.00122.38	7
ATOM	13678	CA	GLU	G	597	73.364	89.205	9.815	1.00121.70	6
ATOM	13679	CB	GLU	G	597	73.821	87.986	9.017	1.00 92.65	6
ATOM	13680	CG	GLU	G	597	73.235	86.671	9.445	1.00 92.04	6
ATOM	13681	CD	GLU	G	597	73.634	85.566	8.503	1.00 91.30	6
ATOM	13682	OE1	GLU	G	597	74.853	85.364	8.315	1.00 90.02	8
ATOM	13683	OE2	GLU	G	597	72.731	84.908	7.946	1.00 90.79	8
ATOM	13684	C	GLU	G	597	73.828	89.086	11.269	1.00121.10	6
ATOM	13685	O	GLU	G	597	74.678	89.856	11.721	1.00121.55	8
ATOM	13686	N	ARG	G	598	73.269	88.120	11.995	1.00117.35	7
ATOM	13687	CA	ARG	G	598	73.623	87.897	13.399	1.00116.12	6
ATOM	13688	CB	ARG	G	598	72.471	87.210	14.133	1.00155.91	6
ATOM	13689	CG	ARG	G	598	71.128	87.919	14.033	1.00157.25	6
ATOM	13690	CD	ARG	G	598	70.044	87.035	14.628	1.00159.10	6
ATOM	13691	NE	ARG	G	598	68.698	87.541	14.386	1.00160.81	7
ATOM	13692	CZ	ARG	G	598	67.591	86.846	14.629	1.00161.53	6
ATOM	13693	NH1	ARG	G	598	67.672	85.613	15.119	1.00161.89	7
ATOM	13694	NH2	ARG	G	598	66.400	87.379	14.381	1.00161.59	7
ATOM	13695	C	ARG	G	598	74.878	87.028	13.517	1.00114.07	6
ATOM	13696	O	ARG	G	598	75.023	86.037	12.800	1.00114.47	8
ATOM	13697	N	PRO	G	599	75.789	87.381	14.443	1.00 59.23	7
ATOM	13698	CD	PRO	G	599	75.586	88.420	15.466	1.00 48.11	6
ATOM	13699	CA	PRO	G	599	77.044	86.660	14.682	1.00 58.47	6
ATOM	13700	CB	PRO	G	599	77.760	87.546	15.687	1.00 47.91	6
ATOM	13701	CG	PRO	G	599	76.625	88.060	16.509	1.00 47.94	6
ATOM	13702	C	PRO	G	599	76.793	85.259	15.211	1.00 58.22	6
ATOM	13703	O	PRO	G	599	75.707	84.718	15.028	1.00 59.47	8
ATOM	13704	N	LEU	G	600	77.784	84.668	15.869	1.00 48.10	7
ATOM	13705	CA	LEU	G	600	77.619	83.314	16.378	1.00 47.99	6
ATOM	13706	CB	LEU	G	600	78.587	82.386	15.666	1.00 54.05	6
ATOM	13707	CG	LEU	G	600	78.820	82.837	14.226	1.00 54.55	6
ATOM	13708	CD1	LEU	G	600	79.875	81.967	13.581	1.00 55.60	6
ATOM	13709	CD2	LEU	G	600	77.524	82.773	13.452	1.00 53.38	6
ATOM	13710	C	LEU	G	600	77.854	83.237	17.875	1.00 48.55	6
ATOM	13711	O	LEU	G	600	78.329	84.189	18.490	1.00 48.30	8

ATOM	13712	N	ARG	G	601	77.509	82.100	18.466	1.00	74.02	7
ATOM	13713	CA	ARG	G	601	77.704	81.923	19.893	1.00	74.67	6
ATOM	13714	CB	ARG	G	601	76.612	81.027	20.488	1.00	83.57	6
ATOM	13715	CG	ARG	G	601	75.179	81.541	20.320	1.00	85.04	6
ATOM	13716	CD	ARG	G	601	75.046	83.009	20.711	1.00	85.98	6
ATOM	13717	NE	ARG	G	601	73.657	83.454	20.825	1.00	87.40	7
ATOM	13718	CZ	ARG	G	601	73.293	84.735	20.853	1.00	88.26	6
ATOM	13719	NH1	ARG	G	601	74.219	85.686	20.767	1.00	88.90	7
ATOM	13720	NH2	ARG	G	601	72.013	85.072	20.980	1.00	88.70	7
ATOM	13721	C	ARG	G	601	79.066	81.284	20.083	1.00	74.96	6
ATOM	13722	O	ARG	G	601	79.223	80.076	19.954	1.00	75.24	8
ATOM	13723	N	SER	G	602	80.061	82.103	20.377	1.00	52.21	7
ATOM	13724	CA	SER	G	602	81.406	81.588	20.567	1.00	53.74	6
ATOM	13725	CB	SER	G	602	82.416	82.736	20.484	1.00	113.06	6
ATOM	13726	OG	SER	G	602	81.981	83.859	21.230	1.00	113.37	8
ATOM	13727	C	SER	G	602	81.556	80.842	21.890	1.00	54.78	6
ATOM	13728	O	SER	G	602	80.597	80.732	22.651	1.00	55.37	8
ATOM	13729	N	LEU	G	603	82.762	80.336	22.152	1.00	68.31	7
ATOM	13730	CA	LEU	G	603	83.054	79.604	23.380	1.00	69.95	6
ATOM	13731	CB	LEU	G	603	84.533	79.211	23.436	1.00	66.38	6
ATOM	13732	CG	LEU	G	603	84.814	77.704	23.484	1.00	67.10	6
ATOM	13733	CD1	LEU	G	603	84.313	77.098	22.211	1.00	66.06	6
ATOM	13734	CD2	LEU	G	603	86.297	77.407	23.628	1.00	67.79	6
ATOM	13735	C	LEU	G	603	82.709	80.397	24.627	1.00	71.38	6
ATOM	13736	O	LEU	G	603	82.408	79.820	25.658	1.00	72.13	8
ATOM	13737	N	THR	G	604	82.750	81.719	24.534	1.00	131.25	7
ATOM	13738	CA	THR	G	604	82.440	82.563	25.682	1.00	132.27	6
ATOM	13739	CB	THR	G	604	83.017	83.968	25.495	1.00	142.86	6
ATOM	13740	OG1	THR	G	604	84.421	83.864	25.245	1.00	143.74	8
ATOM	13741	CG2	THR	G	604	82.790	84.811	26.738	1.00	142.56	6
ATOM	13742	C	THR	G	604	80.941	82.673	25.949	1.00	132.56	6
ATOM	13743	O	THR	G	604	80.528	83.008	27.057	1.00	133.04	8
ATOM	13744	N	ASP	G	605	80.125	82.403	24.936	1.00	50.88	7
ATOM	13745	CA	ASP	G	605	78.691	82.466	25.120	1.00	51.18	6
ATOM	13746	CB	ASP	G	605	77.968	82.432	23.775	1.00	208.87	6
ATOM	13747	CG	ASP	G	605	76.464	82.440	23.930	1.00	208.87	6
ATOM	13748	OD1	ASP	G	605	75.879	81.355	24.142	1.00	208.87	8
ATOM	13749	OD2	ASP	G	605	75.864	83.534	23.855	1.00	208.87	8
ATOM	13750	C	ASP	G	605	78.295	81.268	25.976	1.00	49.56	6
ATOM	13751	O	ASP	G	605	77.341	81.324	26.742	1.00	49.51	8
ATOM	13752	N	ILE	G	606	79.026	80.173	25.851	1.00	41.61	7
ATOM	13753	CA	ILE	G	606	78.713	79.016	26.670	1.00	41.65	6
ATOM	13754	CB	ILE	G	606	79.506	77.753	26.245	1.00	44.09	6
ATOM	13755	CG2	ILE	G	606	79.121	76.572	27.120	1.00	42.98	6
ATOM	13756	CG1	ILE	G	606	79.228	77.416	24.783	1.00	43.64	6
ATOM	13757	CD1	ILE	G	606	80.000	78.255	23.791	1.00	43.28	6
ATOM	13758	C	ILE	G	606	79.189	79.409	28.050	1.00	42.41	6
ATOM	13759	O	ILE	G	606	78.831	78.796	29.041	1.00	43.00	8
ATOM	13760	N	LEU	G	607	79.995	80.458	28.104	1.00	91.80	7
ATOM	13761	CA	LEU	G	607	80.565	80.904	29.359	1.00	93.30	6
ATOM	13762	CB	LEU	G	607	82.072	80.668	29.315	1.00	64.66	6
ATOM	13763	CG	LEU	G	607	82.801	80.121	30.528	1.00	65.41	6
ATOM	13764	CD1	LEU	G	607	82.646	78.606	30.580	1.00	65.76	6
ATOM	13765	CD2	LEU	G	607	84.261	80.495	30.417	1.00	64.60	6
ATOM	13766	C	LEU	G	607	80.312	82.382	29.619	1.00	94.48	6
ATOM	13767	O	LEU	G	607	81.271	83.128	29.801	1.00	96.06	8

ATOM	13768	N	SER	G	608	79.055	82.822	29.633	1.00	44.59	7
ATOM	13769	CA	SER	G	608	78.794	84.239	29.884	1.00	45.43	6
ATOM	13770	CB	SER	G	608	79.662	85.103	28.970	1.00	65.77	6
ATOM	13771	OG	SER	G	608	79.407	86.480	29.208	1.00	67.77	8
ATOM	13772	C	SER	G	608	77.367	84.772	29.793	1.00	45.67	6
ATOM	13773	O	SER	G	608	76.537	84.283	29.030	1.00	45.55	8
ATOM	13774	N	GLY	G	609	77.127	85.819	30.578	1.00	61.64	7
ATOM	13775	CA	GLY	G	609	75.846	86.501	30.631	1.00	63.15	6
ATOM	13776	C	GLY	G	609	74.603	85.718	30.285	1.00	64.26	6
ATOM	13777	O	GLY	G	609	74.284	84.720	30.932	1.00	65.19	8
ATOM	13778	N	LYS	G	610	73.897	86.206	29.267	1.00	208.87	7
ATOM	13779	CA	LYS	G	610	72.662	85.614	28.758	1.00	208.87	6
ATOM	13780	CB	LYS	G	610	72.487	86.017	27.290	1.00	208.87	6
ATOM	13781	CG	LYS	G	610	72.637	87.516	27.050	1.00	208.87	6
ATOM	13782	CD	LYS	G	610	72.744	87.847	25.569	1.00	208.87	6
ATOM	13783	CE	LYS	G	610	73.053	89.323	25.356	1.00	208.87	6
ATOM	13784	NZ	LYS	G	610	73.256	89.668	23.920	1.00	208.87	7
ATOM	13785	C	LYS	G	610	72.655	84.092	28.887	1.00	208.87	6
ATOM	13786	O	LYS	G	610	73.001	83.379	27.946	1.00	208.87	8
ATOM	13787	N	GLN	G	611	72.251	83.601	30.054	1.00	48.76	7
ATOM	13788	CA	GLN	G	611	72.221	82.168	30.310	1.00	46.20	6
ATOM	13789	CB	GLN	G	611	71.138	81.495	29.456	1.00	184.13	6
ATOM	13790	CG	GLN	G	611	69.726	81.960	29.775	1.00	186.33	6
ATOM	13791	CD	GLN	G	611	68.661	81.026	29.230	1.00	187.53	6
ATOM	13792	OE1	GLN	G	611	68.603	79.850	29.596	1.00	188.49	8
ATOM	13793	NE2	GLN	G	611	67.808	81.547	28.355	1.00	187.68	7
ATOM	13794	C	GLN	G	611	73.568	81.464	30.086	1.00	43.77	6
ATOM	13795	O	GLN	G	611	73.749	80.758	29.097	1.00	43.16	8
ATOM	13796	N	GLY	G	612	74.507	81.653	31.010	1.00	87.49	7
ATOM	13797	CA	GLY	G	612	75.807	81.009	30.896	1.00	84.48	6
ATOM	13798	C	GLY	G	612	76.013	80.040	32.046	1.00	82.41	6
ATOM	13799	O	GLY	G	612	75.470	80.264	33.127	1.00	82.87	8
ATOM	13800	N	ARG	G	613	76.792	78.978	31.828	1.00	92.68	7
ATOM	13801	CA	ARG	G	613	77.053	77.968	32.860	1.00	90.80	6
ATOM	13802	CB	ARG	G	613	78.222	77.059	32.470	1.00	152.76	6
ATOM	13803	CG	ARG	G	613	77.881	76.013	31.427	1.00	156.97	6
ATOM	13804	CD	ARG	G	613	76.751	75.093	31.874	1.00	161.19	6
ATOM	13805	NE	ARG	G	613	76.377	74.168	30.803	1.00	165.23	7
ATOM	13806	CZ	ARG	G	613	75.351	73.323	30.854	1.00	166.73	6
ATOM	13807	NH1	ARG	G	613	74.577	73.271	31.931	1.00	166.77	7
ATOM	13808	NH2	ARG	G	613	75.095	72.530	29.821	1.00	167.54	7
ATOM	13809	C	ARG	G	613	77.328	78.549	34.232	1.00	88.05	6
ATOM	13810	O	ARG	G	613	77.528	77.803	35.186	1.00	88.02	8
ATOM	13811	N	PHE	G	614	77.361	79.876	34.323	1.00	74.36	7
ATOM	13812	CA	PHE	G	614	77.571	80.556	35.592	1.00	70.51	6
ATOM	13813	CB	PHE	G	614	78.508	81.763	35.430	1.00	47.48	6
ATOM	13814	CG	PHE	G	614	79.975	81.402	35.405	1.00	47.07	6
ATOM	13815	CD1	PHE	G	614	80.766	81.712	34.303	1.00	46.72	6
ATOM	13816	CD2	PHE	G	614	80.562	80.737	36.478	1.00	47.03	6
ATOM	13817	CE1	PHE	G	614	82.110	81.366	34.267	1.00	47.18	6
ATOM	13818	CE2	PHE	G	614	81.909	80.385	36.451	1.00	47.23	6
ATOM	13819	CZ	PHE	G	614	82.680	80.699	35.346	1.00	47.41	6
ATOM	13820	C	PHE	G	614	76.215	81.019	36.097	1.00	67.81	6
ATOM	13821	O	PHE	G	614	75.697	80.505	37.084	1.00	68.35	8
ATOM	13822	N	ARG	G	615	75.626	81.974	35.396	1.00	43.81	7
ATOM	13823	CA	ARG	G	615	74.339	82.505	35.803	1.00	41.47	6

ATOM	13824	CB	ARG	G	615	73.980	83.706	34.942	1.00	73.46	6
ATOM	13825	CG	ARG	G	615	75.068	84.759	34.904	1.00	74.60	6
ATOM	13826	CD	ARG	G	615	74.486	86.089	34.520	1.00	73.90	6
ATOM	13827	NE	ARG	G	615	75.421	86.904	33.762	1.00	74.07	7
ATOM	13828	CZ	ARG	G	615	75.088	88.058	33.193	1.00	74.42	6
ATOM	13829	NH1	ARG	G	615	73.843	88.515	33.315	1.00	74.48	7
ATOM	13830	NH2	ARG	G	615	75.983	88.746	32.486	1.00	75.26	7
ATOM	13831	C	ARG	G	615	73.195	81.495	35.773	1.00	39.60	6
ATOM	13832	O	ARG	G	615	72.223	81.632	36.517	1.00	39.50	8
ATOM	13833	N	GLN	G	616	73.298	80.482	34.923	1.00	37.71	7
ATOM	13834	CA	GLN	G	616	72.242	79.476	34.838	1.00	34.81	6
ATOM	13835	CB	GLN	G	616	72.452	78.589	33.614	1.00	86.50	6
ATOM	13836	CG	GLN	G	616	71.372	77.554	33.432	1.00	91.00	6
ATOM	13837	CD	GLN	G	616	71.306	77.045	32.016	1.00	94.14	6
ATOM	13838	OE1	GLN	G	616	71.019	77.801	31.082	1.00	95.38	8
ATOM	13839	NE2	GLN	G	616	71.572	75.756	31.842	1.00	96.47	7
ATOM	13840	C	GLN	G	616	72.271	78.636	36.096	1.00	30.75	6
ATOM	13841	O	GLN	G	616	73.195	77.868	36.300	1.00	29.90	8
ATOM	13842	N	ASN	G	617	71.248	78.790	36.922	1.00	16.17	7
ATOM	13843	CA	ASN	G	617	71.115	78.101	38.200	1.00	13.87	6
ATOM	13844	CB	ASN	G	617	72.425	77.467	38.696	1.00	18.24	6
ATOM	13845	CG	ASN	G	617	72.580	76.019	38.283	1.00	16.86	6
ATOM	13846	OD1	ASN	G	617	71.946	75.567	37.345	1.00	16.30	8
ATOM	13847	ND2	ASN	G	617	73.448	75.291	38.973	1.00	17.10	7
ATOM	13848	C	ASN	G	617	70.769	79.242	39.121	1.00	13.87	6
ATOM	13849	O	ASN	G	617	69.851	79.149	39.922	1.00	13.87	8
ATOM	13850	N	LEU	G	618	71.517	80.328	39.011	1.00	16.18	7
ATOM	13851	CA	LEU	G	618	71.251	81.484	39.832	1.00	16.59	6
ATOM	13852	CB	LEU	G	618	72.238	82.575	39.477	1.00	16.61	6
ATOM	13853	CG	LEU	G	618	73.621	82.082	39.862	1.00	16.77	6
ATOM	13854	CD1	LEU	G	618	74.719	82.906	39.228	1.00	14.48	6
ATOM	13855	CD2	LEU	G	618	73.692	82.102	41.378	1.00	16.76	6
ATOM	13856	C	LEU	G	618	69.832	81.867	39.455	1.00	17.94	6
ATOM	13857	O	LEU	G	618	69.006	82.199	40.306	1.00	19.53	8
ATOM	13858	N	LEU	G	619	69.554	81.779	38.161	1.00	25.37	7
ATOM	13859	CA	LEU	G	619	68.243	82.075	37.611	1.00	25.49	6
ATOM	13860	CB	LEU	G	619	68.377	82.407	36.131	1.00	16.11	6
ATOM	13861	CG	LEU	G	619	68.183	83.825	35.641	1.00	13.87	6
ATOM	13862	CD1	LEU	G	619	68.838	84.788	36.569	1.00	13.87	6
ATOM	13863	CD2	LEU	G	619	68.759	83.921	34.251	1.00	13.87	6
ATOM	13864	C	LEU	G	619	67.362	80.832	37.773	1.00	28.24	6
ATOM	13865	O	LEU	G	619	67.528	80.055	38.712	1.00	28.33	8
ATOM	13866	N	GLY	G	620	66.442	80.637	36.835	1.00	107.94	7
ATOM	13867	CA	GLY	G	620	65.539	79.505	36.914	1.00	112.04	6
ATOM	13868	C	GLY	G	620	66.060	78.147	36.482	1.00	113.20	6
ATOM	13869	O	GLY	G	620	67.268	77.925	36.364	1.00	113.21	8
ATOM	13870	N	LYS	G	621	65.109	77.241	36.261	1.00	78.17	7
ATOM	13871	CA	LYS	G	621	65.364	75.871	35.830	1.00	77.93	6
ATOM	13872	CB	LYS	G	621	66.348	75.179	36.783	1.00	46.54	6
ATOM	13873	CG	LYS	G	621	67.751	75.050	36.216	1.00	46.21	6
ATOM	13874	CD	LYS	G	621	68.566	73.982	36.926	1.00	45.82	6
ATOM	13875	CE	LYS	G	621	69.924	73.822	36.264	1.00	44.86	6
ATOM	13876	NZ	LYS	G	621	70.758	72.809	36.949	1.00	41.06	7
ATOM	13877	C	LYS	G	621	64.052	75.082	35.791	1.00	78.01	6
ATOM	13878	O	LYS	G	621	63.314	75.074	36.771	1.00	80.07	8
ATOM	13879	N	ARG	G	622	63.768	74.432	34.660	1.00	26.65	7

ATOM	13880	CA	ARG	G	622	62.557	73.627	34.492	1.00	25.79	6
ATOM	13881	CB	ARG	G	622	62.384	73.248	33.027	1.00	60.74	6
ATOM	13882	CG	ARG	G	622	61.900	74.378	32.171	1.00	61.77	6
ATOM	13883	CD	ARG	G	622	60.395	74.504	32.266	1.00	63.51	6
ATOM	13884	NE	ARG	G	622	59.940	75.826	31.840	1.00	65.64	7
ATOM	13885	CZ	ARG	G	622	58.665	76.213	31.786	1.00	66.18	6
ATOM	13886	NH1	ARG	G	622	57.684	75.381	32.122	1.00	64.18	7
ATOM	13887	NH2	ARG	G	622	58.373	77.456	31.426	1.00	67.73	7
ATOM	13888	C	ARG	G	622	62.524	72.351	35.348	1.00	25.89	6
ATOM	13889	O	ARG	G	622	62.917	71.275	34.903	1.00	26.61	8
ATOM	13890	N	VAL	G	623	62.044	72.478	36.581	1.00	20.79	7
ATOM	13891	CA	VAL	G	623	61.940	71.349	37.495	1.00	21.50	6
ATOM	13892	CB	VAL	G	623	61.307	71.780	38.828	1.00	94.77	6
ATOM	13893	CG1	VAL	G	623	61.294	70.611	39.802	1.00	96.54	6
ATOM	13894	CG2	VAL	G	623	62.084	72.948	39.407	1.00	95.05	6
ATOM	13895	C	VAL	G	623	61.096	70.232	36.871	1.00	21.04	6
ATOM	13896	O	VAL	G	623	60.007	70.471	36.341	1.00	19.07	8
ATOM	13897	N	ASP	G	624	61.610	69.010	36.979	1.00	45.47	7
ATOM	13898	CA	ASP	G	624	60.997	67.819	36.406	1.00	45.30	6
ATOM	13899	CB	ASP	G	624	62.107	66.839	36.010	1.00	59.99	6
ATOM	13900	CG	ASP	G	624	61.654	65.816	34.988	1.00	59.38	6
ATOM	13901	OD1	ASP	G	624	60.913	66.199	34.060	1.00	58.91	8
ATOM	13902	OD2	ASP	G	624	62.055	64.636	35.101	1.00	59.47	8
ATOM	13903	C	ASP	G	624	59.988	67.094	37.275	1.00	45.22	6
ATOM	13904	O	ASP	G	624	59.806	65.895	37.118	1.00	46.96	8
ATOM	13905	N	TYR	G	625	59.323	67.794	38.186	1.00	49.99	7
ATOM	13906	CA	TYR	G	625	58.331	67.120	39.027	1.00	49.16	6
ATOM	13907	CB	TYR	G	625	59.020	66.346	40.148	1.00	33.14	6
ATOM	13908	CG	TYR	G	625	59.310	64.887	39.856	1.00	29.99	6
ATOM	13909	CD1	TYR	G	625	60.620	64.449	39.681	1.00	29.37	6
ATOM	13910	CE1	TYR	G	625	60.912	63.115	39.507	1.00	27.99	6
ATOM	13911	CD2	TYR	G	625	58.288	63.935	39.841	1.00	27.42	6
ATOM	13912	CE2	TYR	G	625	58.573	62.593	39.674	1.00	26.81	6
ATOM	13913	CZ	TYR	G	625	59.895	62.193	39.510	1.00	27.31	6
ATOM	13914	OH	TYR	G	625	60.233	60.872	39.368	1.00	28.32	8
ATOM	13915	C	TYR	G	625	57.261	68.009	39.658	1.00	49.98	6
ATOM	13916	O	TYR	G	625	56.832	67.743	40.787	1.00	49.63	8
ATOM	13917	N	SER	G	626	56.808	69.040	38.948	1.00	52.41	7
ATOM	13918	CA	SER	G	626	55.807	69.920	39.529	1.00	52.33	6
ATOM	13919	CB	SER	G	626	56.484	71.106	40.215	1.00	124.14	6
ATOM	13920	OG	SER	G	626	55.540	71.873	40.944	1.00	125.46	8
ATOM	13921	C	SER	G	626	54.775	70.444	38.563	1.00	51.15	6
ATOM	13922	O	SER	G	626	54.878	70.244	37.359	1.00	51.25	8
ATOM	13923	N	GLY	G	627	53.783	71.134	39.121	1.00	58.09	7
ATOM	13924	CA	GLY	G	627	52.710	71.707	38.331	1.00	56.01	6
ATOM	13925	C	GLY	G	627	52.141	72.981	38.927	1.00	53.66	6
ATOM	13926	O	GLY	G	627	52.675	73.541	39.878	1.00	53.41	8
ATOM	13927	N	ARG	G	628	51.037	73.437	38.357	1.00	28.82	7
ATOM	13928	CA	ARG	G	628	50.394	74.659	38.801	1.00	27.47	6
ATOM	13929	CB	ARG	G	628	50.950	75.862	38.032	1.00	53.79	6
ATOM	13930	CG	ARG	G	628	52.416	75.756	37.635	1.00	57.63	6
ATOM	13931	CD	ARG	G	628	52.876	76.935	36.772	1.00	59.23	6
ATOM	13932	NE	ARG	G	628	51.971	77.215	35.659	1.00	61.60	7
ATOM	13933	CZ	ARG	G	628	50.918	78.028	35.735	1.00	64.00	6
ATOM	13934	NH1	ARG	G	628	50.635	78.645	36.878	1.00	64.19	7
ATOM	13935	NH2	ARG	G	628	50.146	78.234	34.668	1.00	63.58	7

ATOM	13936	C	ARG	G	628	48.898	74.557	38.531	1.00	26.02	6
ATOM	13937	O	ARG	G	628	48.424	73.582	37.954	1.00	25.58	8
ATOM	13938	N	SER	G	629	48.163	75.579	38.950	1.00	30.56	7
ATOM	13939	CA	SER	G	629	46.726	75.633	38.755	1.00	28.99	6
ATOM	13940	CB	SER	G	629	46.059	74.344	39.213	1.00	43.18	6
ATOM	13941	OG	SER	G	629	44.649	74.481	39.162	1.00	45.83	8
ATOM	13942	C	SER	G	629	46.162	76.764	39.565	1.00	26.79	6
ATOM	13943	O	SER	G	629	46.817	77.269	40.470	1.00	27.02	8
ATOM	13944	N	VAL	G	630	44.942	77.162	39.239	1.00	14.17	7
ATOM	13945	CA	VAL	G	630	44.283	78.218	39.977	1.00	14.24	6
ATOM	13946	CB	VAL	G	630	42.881	78.447	39.396	1.00	13.87	6
ATOM	13947	CG1	VAL	G	630	41.960	79.043	40.417	1.00	13.87	6
ATOM	13948	CG2	VAL	G	630	42.987	79.365	38.203	1.00	13.87	6
ATOM	13949	C	VAL	G	630	44.227	77.752	41.435	1.00	15.94	6
ATOM	13950	O	VAL	G	630	44.435	76.582	41.714	1.00	16.30	8
ATOM	13951	N	ILE	G	631	43.999	78.646	42.380	1.00	35.03	7
ATOM	13952	CA	ILE	G	631	43.931	78.198	43.760	1.00	37.30	6
ATOM	13953	CB	ILE	G	631	45.077	78.747	44.620	1.00	51.58	6
ATOM	13954	CG2	ILE	G	631	46.310	77.898	44.424	1.00	52.75	6
ATOM	13955	CG1	ILE	G	631	45.300	80.226	44.302	1.00	53.75	6
ATOM	13956	CD1	ILE	G	631	46.234	80.919	45.255	1.00	54.63	6
ATOM	13957	C	ILE	G	631	42.640	78.653	44.374	1.00	35.86	6
ATOM	13958	O	ILE	G	631	42.140	79.732	44.036	1.00	37.41	8
ATOM	13959	N	VAL	G	632	42.104	77.813	45.263	1.00	35.48	7
ATOM	13960	CA	VAL	G	632	40.862	78.088	45.969	1.00	33.73	6
ATOM	13961	CB	VAL	G	632	39.722	77.190	45.505	1.00	13.87	6
ATOM	13962	CG1	VAL	G	632	38.556	77.398	46.410	1.00	13.87	6
ATOM	13963	CG2	VAL	G	632	39.321	77.518	44.083	1.00	13.87	6
ATOM	13964	C	VAL	G	632	41.019	77.870	47.464	1.00	34.15	6
ATOM	13965	O	VAL	G	632	41.772	76.997	47.901	1.00	34.87	8
ATOM	13966	N	VAL	G	633	40.305	78.672	48.250	1.00	15.13	7
ATOM	13967	CA	VAL	G	633	40.366	78.548	49.696	1.00	14.56	6
ATOM	13968	CB	VAL	G	633	39.321	79.416	50.374	1.00	17.98	6
ATOM	13969	CG1	VAL	G	633	37.940	79.010	49.921	1.00	17.51	6
ATOM	13970	CG2	VAL	G	633	39.435	79.267	51.866	1.00	18.40	6
ATOM	13971	C	VAL	G	633	40.072	77.103	50.026	1.00	15.01	6
ATOM	13972	O	VAL	G	633	39.540	76.383	49.199	1.00	14.73	8
ATOM	13973	N	GLY	G	634	40.410	76.672	51.226	1.00	24.13	7
ATOM	13974	CA	GLY	G	634	40.144	75.296	51.569	1.00	26.32	6
ATOM	13975	C	GLY	G	634	40.249	74.959	53.037	1.00	27.61	6
ATOM	13976	O	GLY	G	634	41.319	74.568	53.506	1.00	27.49	8
ATOM	13977	N	PRO	G	635	39.155	75.118	53.798	1.00	34.42	7
ATOM	13978	CD	PRO	G	635	37.874	75.757	53.444	1.00	14.50	6
ATOM	13979	CA	PRO	G	635	39.215	74.789	55.225	1.00	35.61	6
ATOM	13980	CB	PRO	G	635	37.843	75.213	55.733	1.00	16.25	6
ATOM	13981	CG	PRO	G	635	37.421	76.294	54.753	1.00	15.80	6
ATOM	13982	C	PRO	G	635	39.464	73.274	55.362	1.00	39.07	6
ATOM	13983	O	PRO	G	635	38.534	72.488	55.602	1.00	38.33	8
ATOM	13984	N	GLN	G	636	40.727	72.883	55.169	1.00	59.89	7
ATOM	13985	CA	GLN	G	636	41.177	71.489	55.246	1.00	60.82	6
ATOM	13986	CB	GLN	G	636	42.413	71.277	54.381	1.00	49.54	6
ATOM	13987	CG	GLN	G	636	42.223	71.510	52.915	1.00	51.17	6
ATOM	13988	CD	GLN	G	636	43.479	72.062	52.285	1.00	52.97	6
ATOM	13989	OE1	GLN	G	636	43.709	73.264	52.309	1.00	53.14	8
ATOM	13990	NE2	GLN	G	636	44.314	71.186	51.741	1.00	54.60	7
ATOM	13991	C	GLN	G	636	41.559	71.168	56.676	1.00	61.13	6



ATOM	13992	O	GLN	G	636	40.742	71.279	57.584	1.00	61.46	8
ATOM	13993	N	ALA	G	637	42.811	70.761	56.869	1.00	53.10	7
ATOM	13994	CA	ALA	G	637	43.302	70.440	58.203	1.00	54.21	6
ATOM	13995	CB	ALA	G	637	44.026	69.113	58.213	1.00	71.85	6
ATOM	13996	C	ALA	G	637	44.240	71.539	58.624	1.00	53.34	6
ATOM	13997	O	ALA	G	637	45.093	71.333	59.483	1.00	52.33	8
ATOM	13998	N	ALA	G	638	44.054	72.702	58.000	1.00	49.90	7
ATOM	13999	CA	ALA	G	638	44.839	73.899	58.266	1.00	48.08	6
ATOM	14000	CB	ALA	G	638	44.380	74.565	59.527	1.00	33.63	6
ATOM	14001	C	ALA	G	638	46.306	73.608	58.367	1.00	47.42	6
ATOM	14002	O	ALA	G	638	46.733	72.732	59.113	1.00	46.58	8
ATOM	14003	N	LEU	G	639	47.092	74.368	57.620	1.00	56.66	7
ATOM	14004	CA	LEU	G	639	48.519	74.155	57.615	1.00	54.41	6
ATOM	14005	CB	LEU	G	639	49.089	74.390	59.011	1.00	13.87	6
ATOM	14006	CG	LEU	G	639	48.386	75.393	59.912	1.00	13.87	6
ATOM	14007	CD1	LEU	G	639	49.148	75.508	61.198	1.00	13.87	6
ATOM	14008	CD2	LEU	G	639	48.315	76.723	59.235	1.00	13.87	6
ATOM	14009	C	LEU	G	639	48.540	72.674	57.314	1.00	55.55	6
ATOM	14010	O	LEU	G	639	47.502	72.089	56.986	1.00	55.99	8
ATOM	14011	N	HIS	G	640	49.706	72.060	57.393	1.00	47.02	7
ATOM	14012	CA	HIS	G	640	49.743	70.634	57.198	1.00	47.70	6
ATOM	14013	CB	HIS	G	640	48.840	70.027	58.257	1.00	53.49	6
ATOM	14014	CG	HIS	G	640	49.482	68.950	59.045	1.00	57.32	6
ATOM	14015	CD2	HIS	G	640	48.960	67.866	59.659	1.00	58.54	6
ATOM	14016	ND1	HIS	G	640	50.829	68.946	59.325	1.00	60.71	7
ATOM	14017	CE1	HIS	G	640	51.111	67.902	60.081	1.00	62.34	6
ATOM	14018	NE2	HIS	G	640	49.993	67.231	60.300	1.00	61.91	7
ATOM	14019	C	HIS	G	640	49.311	70.108	55.828	1.00	47.48	6
ATOM	14020	O	HIS	G	640	50.120	69.599	55.058	1.00	47.90	8
ATOM	14021	N	GLN	G	641	48.023	70.244	55.535	1.00	31.89	7
ATOM	14022	CA	GLN	G	641	47.448	69.696	54.324	1.00	30.23	6
ATOM	14023	CB	GLN	G	641	46.045	69.189	54.637	1.00	28.09	6
ATOM	14024	CG	GLN	G	641	46.019	68.435	55.958	1.00	26.62	6
ATOM	14025	CD	GLN	G	641	45.055	67.280	55.975	1.00	25.29	6
ATOM	14026	OE1	GLN	G	641	43.835	67.465	55.888	1.00	23.03	8
ATOM	14027	NE2	GLN	G	641	45.599	66.066	56.087	1.00	24.47	7
ATOM	14028	C	GLN	G	641	47.429	70.535	53.078	1.00	30.20	6
ATOM	14029	O	GLN	G	641	47.674	71.738	53.113	1.00	30.30	8
ATOM	14030	N	CYS	G	642	47.105	69.869	51.972	1.00	59.16	7
ATOM	14031	CA	CYS	G	642	47.092	70.486	5			

ATOM	14048	N	PRO	G	645	44.302	68.403	42.930	1.00	27.77	7
ATOM	14049	CD	PRO	G	645	44.726	69.591	42.172	1.00	22.15	6
ATOM	14050	CA	PRO	G	645	43.345	67.599	42.161	1.00	27.56	6
ATOM	14051	CB	PRO	G	645	43.260	68.345	40.834	1.00	22.30	6
ATOM	14052	CG	PRO	G	645	43.615	69.759	41.198	1.00	22.67	6
ATOM	14053	C	PRO	G	645	43.941	66.218	41.980	1.00	28.10	6
ATOM	14054	O	PRO	G	645	44.967	66.093	41.333	1.00	28.41	8
ATOM	14055	N	LYS	G	646	43.329	65.178	42.533	1.00	30.15	7
ATOM	14056	CA	LYS	G	646	43.910	63.842	42.383	1.00	30.47	6
ATOM	14057	CB	LYS	G	646	42.888	62.755	42.741	1.00	24.99	6
ATOM	14058	CG	LYS	G	646	41.577	62.860	42.009	1.00	23.28	6
ATOM	14059	CD	LYS	G	646	40.559	61.945	42.637	1.00	23.51	6
ATOM	14060	CE	LYS	G	646	39.182	62.205	42.066	1.00	24.35	6
ATOM	14061	NZ	LYS	G	646	38.152	61.480	42.848	1.00	26.45	7
ATOM	14062	C	LYS	G	646	44.448	63.624	40.973	1.00	31.88	6
ATOM	14063	O	LYS	G	646	45.506	63.021	40.792	1.00	32.03	8
ATOM	14064	N	ARG	G	647	43.739	64.145	39.976	1.00	25.35	7
ATOM	14065	CA	ARG	G	647	44.180	63.983	38.597	1.00	26.83	6
ATOM	14066	CB	ARG	G	647	43.302	64.797	37.648	1.00	127.24	6
ATOM	14067	CG	ARG	G	647	43.458	64.345	36.210	1.00	133.86	6
ATOM	14068	CD	ARG	G	647	43.269	62.826	36.126	1.00	139.18	6
ATOM	14069	NE	ARG	G	647	43.940	62.228	34.975	1.00	144.06	7
ATOM	14070	CZ	ARG	G	647	44.091	60.918	34.801	1.00	145.06	6
ATOM	14071	NH1	ARG	G	647	43.615	60.068	35.704	1.00	144.69	7
ATOM	14072	NH2	ARG	G	647	44.722	60.456	33.729	1.00	145.29	7
ATOM	14073	C	ARG	G	647	45.640	64.388	38.438	1.00	25.31	6
ATOM	14074	O	ARG	G	647	46.417	63.690	37.793	1.00	25.84	8
ATOM	14075	N	MET	G	648	46.010	65.512	39.037	1.00	19.05	7
ATOM	14076	CA	MET	G	648	47.380	65.981	38.978	1.00	18.02	6
ATOM	14077	CB	MET	G	648	47.435	67.497	39.054	1.00	32.50	6
ATOM	14078	CG	MET	G	648	47.380	68.028	40.455	1.00	34.91	6
ATOM	14079	SD	MET	G	648	47.480	69.798	40.456	1.00	36.66	16
ATOM	14080	CE	MET	G	648	49.209	70.022	40.793	1.00	37.49	6
ATOM	14081	C	MET	G	648	48.217	65.396	40.120	1.00	17.12	6
ATOM	14082	O	MET	G	648	49.436	65.534	40.139	1.00	15.88	8
ATOM	14083	N	ALA	G	649	47.581	64.761	41.093	1.00	34.65	7
ATOM	14084	CA	ALA	G	649	48.363	64.183	42.173	1.00	35.55	6
ATOM	14085	CB	ALA	G	649	47.471	63.766	43.335	1.00	20.55	6
ATOM	14086	C	ALA	G	649	48.974	62.974	41.520	1.00	36.05	6
ATOM	14087	O	ALA	G	649	50.156	62.685	41.696			

ATOM	14104	O	GLU	G	651	52.995	62.259	38.366	1.00	45.96	8
ATOM	14105	N	LEU	G	652	52.026	64.091	39.233	1.00	36.11	7
ATOM	14106	CA	LEU	G	652	53.147	64.423	40.102	1.00	34.41	6
ATOM	14107	CB	LEU	G	652	52.710	65.446	41.168	1.00	21.60	6
ATOM	14108	CG	LEU	G	652	52.664	66.925	40.773	1.00	21.36	6
ATOM	14109	CD1	LEU	G	652	54.037	67.366	40.270	1.00	19.67	6
ATOM	14110	CD2	LEU	G	652	51.638	67.132	39.688	1.00	22.23	6
ATOM	14111	C	LEU	G	652	53.806	63.234	40.795	1.00	33.17	6
ATOM	14112	O	LEU	G	652	54.954	63.332	41.219	1.00	32.50	8
ATOM	14113	N	PHE	G	653	53.098	62.114	40.905	1.00	68.11	7
ATOM	14114	CA	PHE	G	653	53.654	60.952	41.598	1.00	68.09	6
ATOM	14115	CB	PHE	G	653	52.853	60.704	42.897	1.00	15.11	6
ATOM	14116	CG	PHE	G	653	53.155	61.683	44.012	1.00	13.87	6
ATOM	14117	CD1	PHE	G	653	53.081	63.056	43.805	1.00	13.87	6
ATOM	14118	CD2	PHE	G	653	53.494	61.226	45.274	1.00	13.87	6
ATOM	14119	CE1	PHE	G	653	53.339	63.950	44.833	1.00	13.87	6
ATOM	14120	CE2	PHE	G	653	53.750	62.117	46.304	1.00	13.87	6
ATOM	14121	CZ	PHE	G	653	53.670	63.481	46.079	1.00	13.87	6
ATOM	14122	C	PHE	G	653	53.758	59.630	40.811	1.00	69.20	6
ATOM	14123	O	PHE	G	653	54.442	58.705	41.263	1.00	72.31	8
ATOM	14124	N	LYS	G	654	53.117	59.547	39.641	1.00	18.77	7
ATOM	14125	CA	LYS	G	654	53.106	58.308	38.851	1.00	15.87	6
ATOM	14126	CB	LYS	G	654	53.074	58.574	37.345	1.00	23.37	6
ATOM	14127	CG	LYS	G	654	52.859	57.283	36.557	1.00	22.14	6
ATOM	14128	CD	LYS	G	654	52.856	57.484	35.048	1.00	19.84	6
ATOM	14129	CE	LYS	G	654	51.618	58.224	34.565	1.00	18.72	6
ATOM	14130	NZ	LYS	G	654	51.687	58.463	33.091	1.00	19.10	7
ATOM	14131	C	LYS	G	654	54.221	57.335	39.142	1.00	14.73	6
ATOM	14132	O	LYS	G	654	53.960	56.254	39.650	1.00	13.87	8
ATOM	14133	N	PRO	G	655	55.480	57.694	38.822	1.00	13.87	7
ATOM	14134	CD	PRO	G	655	56.032	58.955	38.299	1.00	22.00	6
ATOM	14135	CA	PRO	G	655	56.565	56.751	39.101	1.00	14.48	6
ATOM	14136	CB	PRO	G	655	57.804	57.640	39.090	1.00	21.20	6
ATOM	14137	CG	PRO	G	655	57.481	58.577	38.005	1.00	20.69	6
ATOM	14138	C	PRO	G	655	56.326	56.094	40.440	1.00	15.35	6
ATOM	14139	O	PRO	G	655	56.027	54.911	40.497	1.00	14.19	8
ATOM	14140	N	PHE	G	656	56.415	56.879	41.511	1.00	21.23	7
ATOM	14141	CA	PHE	G	656	56.203	56.351	42.851	1.00	24.52	6
ATOM	14142	CB	PHE	G	656	55.937	57.466	43.853	1.00	56.36	6
ATOM	14143	CG	PHE	G	656	57.114	58.341				

ATOM	14160	CA	LEU	G	658	53.607	52.360	39.138	1.00	47.25	6
ATOM	14161	CB	LEU	G	658	54.691	52.748	38.139	1.00	42.38	6
ATOM	14162	CG	LEU	G	658	54.531	54.006	37.307	1.00	40.85	6
ATOM	14163	CD1	LEU	G	658	55.761	54.173	36.405	1.00	40.90	6
ATOM	14164	CD2	LEU	G	658	53.245	53.911	36.507	1.00	39.81	6
ATOM	14165	C	LEU	G	658	54.191	51.290	40.061	1.00	49.47	6
ATOM	14166	O	LEU	G	658	53.493	50.363	40.462	1.00	48.46	8
ATOM	14167	N	LYS	G	659	55.475	51.445	40.396	1.00	33.92	7
ATOM	14168	CA	LYS	G	659	56.189	50.524	41.266	1.00	37.81	6
ATOM	14169	CB	LYS	G	659	57.411	51.218	41.867	1.00	112.52	6
ATOM	14170	CG	LYS	G	659	58.279	50.319	42.729	1.00	117.06	6
ATOM	14171	CD	LYS	G	659	57.654	50.076	44.093	1.00	120.47	6
ATOM	14172	CE	LYS	G	659	58.485	49.122	44.934	1.00	122.21	6
ATOM	14173	NZ	LYS	G	659	57.930	48.986	46.311	1.00	123.50	7
ATOM	14174	C	LYS	G	659	55.259	50.032	42.369	1.00	39.05	6
ATOM	14175	O	LYS	G	659	55.185	48.829	42.647	1.00	39.17	8
ATOM	14176	N	LYS	G	660	54.553	50.964	43.002	1.00	78.10	7
ATOM	14177	CA	LYS	G	660	53.610	50.619	44.056	1.00	81.03	6
ATOM	14178	CB	LYS	G	660	52.731	51.817	44.409	1.00	102.85	6
ATOM	14179	CG	LYS	G	660	51.944	51.644	45.693	1.00	104.43	6
ATOM	14180	CD	LYS	G	660	52.879	51.492	46.885	1.00	105.45	6
ATOM	14181	CE	LYS	G	660	52.095	51.359	48.175	1.00	106.90	6
ATOM	14182	NZ	LYS	G	660	52.962	51.015	49.332	1.00	108.02	7
ATOM	14183	C	LYS	G	660	52.750	49.508	43.496	1.00	82.46	6
ATOM	14184	O	LYS	G	660	52.751	48.398	44.018	1.00	83.58	8
ATOM	14185	N	MET	G	661	52.034	49.815	42.418	1.00	73.78	7
ATOM	14186	CA	MET	G	661	51.177	48.844	41.744	1.00	74.70	6
ATOM	14187	CB	MET	G	661	50.676	49.408	40.422	1.00	47.67	6
ATOM	14188	CG	MET	G	661	49.745	50.573	40.583	1.00	43.82	6
ATOM	14189	SD	MET	G	661	49.083	51.056	39.019	1.00	37.36	16
ATOM	14190	CE	MET	G	661	50.450	51.991	38.440	1.00	37.75	6
ATOM	14191	C	MET	G	661	51.903	47.535	41.474	1.00	77.32	6
ATOM	14192	O	MET	G	661	51.379	46.462	41.767	1.00	77.89	8
ATOM	14193	N	GLU	G	662	53.098	47.626	40.895	1.00	41.30	7
ATOM	14194	CA	GLU	G	662	53.889	46.437	40.615	1.00	43.36	6
ATOM	14195	CB	GLU	G	662	55.353	46.787	40.326	1.00	97.38	6
ATOM	14196	CG	GLU	G	662	56.286	45.571	40.448	1.00	100.79	6
ATOM	14197	CD	GLU	G	662	57.748	45.930	40.708	1.00	102.66	6
ATOM	14198	OE1	GLU	G	662	58.013	46.844	41.524	1.00	104.78	8
ATOM	14199	OE2	GLU	G	662	58.637	45.278	40.111	1.00	102.38	8
ATOM	14200	C	GLU	G	662	53.848	45.561	41.850	1.00	44.11	6
ATOM	14201	O	GLU	G	662	53.162	44.541	41.883	1.00	44.20	8
ATOM	14202	N	GLU	G	663	54.575	45.981	42.876	1.00	79.97	7
ATOM	14203	CA	GLU	G	663	54.643	45.219	44.110	1.00	82.77	6
ATOM	14204	CB	GLU	G	663	55.610	45.896	45.082	1.00	185.83	6
ATOM	14205	CG	GLU	G	663	56.181	44.959	46.130	1.00	188.96	6
ATOM	14206	CD	GLU	G	663	57.317	45.585	46.905	1.00	190.76	6
ATOM	14207	OE1	GLU	G	663	57.071	46.569	47.634	1.00	192.26	8
ATOM	14208	OE2	GLU	G	663	58.459	45.096	46.779	1.00	191.84	8
ATOM	14209	C	GLU	G	663	53.267	45.063	44.747	1.00	83.00	6
ATOM	14210	O	GLU	G	663	52.996	44.079	45.445	1.00	82.12	8
ATOM	14211	N	LYS	G	664	52.391	46.027	44.491	1.00	72.63	7
ATOM	14212	CA	LYS	G	664	51.050	45.986	45.051	1.00	73.05	6
ATOM	14213	CB	LYS	G	664	50.298	47.278	44.742	1.00	76.35	6
ATOM	14214	CG	LYS	G	664	49.153	47.550	45.692	1.00	77.34	6
ATOM	14215	CD	LYS	G	664	49.665	47.664	47.107	1.00	78.12	6

ATOM	14216	CE	LYS	G	664	48.552	47.948	48.079	1.00	79.63	6
ATOM	14217	NZ	LYS	G	664	49.094	47.991	49.459	1.00	80.80	7
ATOM	14218	C	LYS	G	664	50.303	44.810	44.454	1.00	73.20	6
ATOM	14219	O	LYS	G	664	49.115	44.624	44.708	1.00	73.35	8
ATOM	14220	N	ALA	G	665	51.019	44.020	43.660	1.00	121.02	7
ATOM	14221	CA	ALA	G	665	50.463	42.848	42.996	1.00	121.79	6
ATOM	14222	CB	ALA	G	665	49.677	41.990	43.996	1.00	143.90	6
ATOM	14223	C	ALA	G	665	49.573	43.250	41.820	1.00	121.53	6
ATOM	14224	O	ALA	G	665	49.737	42.733	40.711	1.00	121.51	8
ATOM	14225	N	PHE	G	666	48.643	44.177	42.057	1.00	37.57	7
ATOM	14226	CA	PHE	G	666	47.746	44.619	41.000	1.00	37.28	6
ATOM	14227	CB	PHE	G	666	46.869	45.780	41.434	1.00	123.03	6
ATOM	14228	CG	PHE	G	666	46.038	46.307	40.321	1.00	125.47	6
ATOM	14229	CD1	PHE	G	666	45.194	45.450	39.619	1.00	126.92	6
ATOM	14230	CD2	PHE	G	666	46.150	47.623	39.910	1.00	126.53	6
ATOM	14231	CE1	PHE	G	666	44.476	45.893	38.518	1.00	127.79	6
ATOM	14232	CE2	PHE	G	666	45.435	48.079	38.806	1.00	127.42	6
ATOM	14233	CZ	PHE	G	666	44.595	47.209	38.108	1.00	127.68	6
ATOM	14234	C	PHE	G	666	48.520	45.049	39.780	1.00	36.21	6
ATOM	14235	O	PHE	G	666	49.528	45.743	39.894	1.00	35.65	8
ATOM	14236	N	ALA	G	667	48.024	44.652	38.615	1.00	71.70	7
ATOM	14237	CA	ALA	G	667	48.677	44.951	37.350	1.00	72.52	6
ATOM	14238	CB	ALA	G	667	49.100	46.416	37.295	1.00	56.64	6
ATOM	14239	C	ALA	G	667	49.896	44.031	37.227	1.00	72.96	6
ATOM	14240	O	ALA	G	667	50.666	43.858	38.179	1.00	73.12	8
ATOM	14241	N	PRO	G	668	50.076	43.419	36.049	1.00	53.70	7
ATOM	14242	CD	PRO	G	668	49.233	43.557	34.851	1.00	164.07	6
ATOM	14243	CA	PRO	G	668	51.196	42.509	35.795	1.00	53.37	6
ATOM	14244	CB	PRO	G	668	50.948	42.051	34.356	1.00	164.48	6
ATOM	14245	CG	PRO	G	668	50.189	43.186	33.756	1.00	164.69	6
ATOM	14246	C	PRO	G	668	52.599	43.067	36.002	1.00	52.84	6
ATOM	14247	O	PRO	G	668	53.227	42.800	37.028	1.00	52.68	8
ATOM	14248	N	ASN	G	669	53.089	43.829	35.026	1.00	128.24	7
ATOM	14249	CA	ASN	G	669	54.431	44.407	35.096	1.00	128.44	6
ATOM	14250	CB	ASN	G	669	55.278	43.910	33.916	1.00	145.71	6
ATOM	14251	CG	ASN	G	669	56.743	44.310	34.029	1.00	146.68	6
ATOM	14252	OD1	ASN	G	669	57.072	45.493	34.119	1.00	147.81	8
ATOM	14253	ND2	ASN	G	669	57.631	43.319	34.016	1.00	146.26	7
ATOM	14254	C	ASN	G	669	54.382	45.930	35.084	1.00	127.00	6
ATOM	14255	O	ASN	G	669	53.428	46.522				

ATOM	14272	N	ALA	G	672	53.397	47.212	32.198	1.00	91.90	7
ATOM	14273	CA	ALA	G	672	51.957	47.149	32.079	1.00	92.72	6
ATOM	14274	CB	ALA	G	672	51.462	45.838	32.651	1.00	54.28	6
ATOM	14275	C	ALA	G	672	51.387	48.315	32.862	1.00	92.79	6
ATOM	14276	O	ALA	G	672	50.385	48.920	32.479	1.00	93.15	8
ATOM	14277	N	ALA	G	673	52.055	48.629	33.963	1.00	68.21	7
ATOM	14278	CA	ALA	G	673	51.635	49.709	34.837	1.00	68.34	6
ATOM	14279	CB	ALA	G	673	52.749	50.031	35.827	1.00	89.90	6
ATOM	14280	C	ALA	G	673	51.216	50.975	34.096	1.00	67.95	6
ATOM	14281	O	ALA	G	673	50.031	51.302	34.032	1.00	67.40	8
ATOM	14282	N	ARG	G	674	52.190	51.681	33.535	1.00	65.41	7
ATOM	14283	CA	ARG	G	674	51.908	52.922	32.835	1.00	67.03	6
ATOM	14284	CB	ARG	G	674	53.205	53.506	32.273	1.00	103.04	6
ATOM	14285	CG	ARG	G	674	53.078	54.949	31.835	1.00	104.24	6
ATOM	14286	CD	ARG	G	674	52.793	55.058	30.353	1.00	104.40	6
ATOM	14287	NE	ARG	G	674	52.388	56.408	29.968	1.00	105.20	7
ATOM	14288	CZ	ARG	G	674	51.145	56.866	30.060	1.00	105.41	6
ATOM	14289	NH1	ARG	G	674	50.181	56.082	30.523	1.00	104.98	7
ATOM	14290	NH2	ARG	G	674	50.863	58.106	29.684	1.00	106.31	7
ATOM	14291	C	ARG	G	674	50.872	52.750	31.728	1.00	67.67	6
ATOM	14292	O	ARG	G	674	50.029	53.625	31.509	1.00	67.06	8
ATOM	14293	N	ARG	G	675	50.916	51.615	31.040	1.00	108.48	7
ATOM	14294	CA	ARG	G	675	49.966	51.376	29.965	1.00	108.75	6
ATOM	14295	CB	ARG	G	675	50.427	50.205	29.086	1.00	127.82	6
ATOM	14296	CG	ARG	G	675	49.981	50.321	27.623	1.00	128.88	6
ATOM	14297	CD	ARG	G	675	50.760	49.391	26.692	1.00	129.54	6
ATOM	14298	NE	ARG	G	675	52.204	49.594	26.792	1.00	130.47	7
ATOM	14299	CZ	ARG	G	675	53.016	48.857	27.546	1.00	130.84	6
ATOM	14300	NH1	ARG	G	675	52.527	47.855	28.266	1.00	130.82	7
ATOM	14301	NH2	ARG	G	675	54.315	49.131	27.589	1.00	130.16	7
ATOM	14302	C	ARG	G	675	48.582	51.109	30.546	1.00	107.51	6
ATOM	14303	O	ARG	G	675	47.585	51.116	29.832	1.00	107.12	8
ATOM	14304	N	MET	G	676	48.521	50.880	31.851	1.00	60.35	7
ATOM	14305	CA	MET	G	676	47.239	50.639	32.495	1.00	60.57	6
ATOM	14306	CB	MET	G	676	47.383	49.711	33.695	1.00	72.73	6
ATOM	14307	CG	MET	G	676	46.073	49.476	34.430	1.00	72.58	6
ATOM	14308	SD	MET	G	676	46.295	48.294	35.745	1.00	72.42	16
ATOM	14309	CE	MET	G	676	46.929	46.852	34.793	1.00	72.53	6
ATOM	14310	C	MET	G	676	46.659	51.958	32.963	1.00	60.63	6
ATOM	14311	O	MET	G	676	45.488	52.031	33.336	1.00	60.07	8
ATOM	14312	N	LEU	G	677	47.501	52.987	32.981	1.00	65.74	7
ATOM	14313	CA	LEU	G	677	47.066	54.321	33.362	1.00	66.76	6
ATOM	14314	CB	LEU	G	677	48.085	55.023	34.274	1.00	25.52	6
ATOM	14315	CG	LEU	G	677	48.594	54.395	35.584	1.00	24.47	6
ATOM	14316	CD1	LEU	G	677	49.595	55.345	36.213	1.00	23.03	6
ATOM	14317	CD2	LEU	G	677	47.466	54.112	36.561	1.00	24.12	6
ATOM	14318	C	LEU	G	677	47.027	55.013	32.014	1.00	68.67	6
ATOM	14319	O	LEU	G	677	46.622	56.164	31.893	1.00	68.96	8
ATOM	14320	N	GLU	G	678	47.453	54.273	30.997	1.00	168.88	7
ATOM	14321	CA	GLU	G	678	47.500	54.770	29.633	1.00	171.52	6
ATOM	14322	CB	GLU	G	678	48.436	53.893	28.805	1.00	87.26	6
ATOM	14323	CG	GLU	G	678	48.953	54.529	27.538	1.00	86.39	6
ATOM	14324	CD	GLU	G	678	50.389	54.947	27.677	1.00	85.88	6
ATOM	14325	OE1	GLU	G	678	51.194	54.099	28.115	1.00	85.47	8
ATOM	14326	OE2	GLU	G	678	50.716	56.109	27.348	1.00	85.93	8
ATOM	14327	C	GLU	G	678	46.110	54.785	28.997	1.00	173.21	6

ATOM	14328	O	GLU	G	678	45.916	55.377	27.933	1.00173.73	8
ATOM	14329	N	ARG	G	679	45.149	54.126	29.641	1.00 82.26	7
ATOM	14330	CA	ARG	G	679	43.785	54.095	29.125	1.00 83.68	6
ATOM	14331	CB	ARG	G	679	42.916	53.107	29.912	1.00128.49	6
ATOM	14332	CG	ARG	G	679	43.183	51.636	29.611	1.00129.03	6
ATOM	14333	CD	ARG	G	679	42.054	50.752	30.154	1.00129.61	6
ATOM	14334	NE	ARG	G	679	42.181	49.354	29.737	1.00129.74	7
ATOM	14335	CZ	ARG	G	679	41.224	48.436	29.871	1.00129.57	6
ATOM	14336	NH1	ARG	G	679	40.055	48.760	30.411	1.00129.12	7
ATOM	14337	NH2	ARG	G	679	41.435	47.191	29.462	1.00129.43	7
ATOM	14338	C	ARG	G	679	43.180	55.492	29.216	1.00 84.53	6
ATOM	14339	O	ARG	G	679	41.993	55.648	29.504	1.00 84.12	8
ATOM	14340	N	GLN	G	680	44.025	56.491	28.970	1.00153.00	7
ATOM	14341	CA	GLN	G	680	43.666	57.905	28.983	1.00154.45	6
ATOM	14342	CB	GLN	G	680	43.039	58.291	27.634	1.00144.51	6
ATOM	14343	CG	GLN	G	680	41.873	57.409	27.184	1.00146.04	6
ATOM	14344	CD	GLN	G	680	41.491	57.618	25.724	1.00147.12	6
ATOM	14345	OE1	GLN	G	680	40.546	57.003	25.225	1.00147.19	8
ATOM	14346	NE2	GLN	G	680	42.227	58.483	25.032	1.00148.35	7
ATOM	14347	C	GLN	G	680	42.777	58.375	30.132	1.00154.84	6
ATOM	14348	O	GLN	G	680	43.148	59.289	30.871	1.00155.73	8
ATOM	14349	N	ARG	G	681	41.609	57.761	30.284	1.00139.08	7
ATOM	14350	CA	ARG	G	681	40.684	58.144	31.341	1.00138.36	6
ATOM	14351	CB	ARG	G	681	39.772	59.263	30.832	1.00 91.06	6
ATOM	14352	CG	ARG	G	681	40.552	60.517	30.464	1.00 91.28	6
ATOM	14353	CD	ARG	G	681	39.747	61.508	29.641	1.00 92.01	6
ATOM	14354	NE	ARG	G	681	40.460	62.777	29.495	1.00 92.46	7
ATOM	14355	CZ	ARG	G	681	39.964	63.854	28.895	1.00 92.95	6
ATOM	14356	NH1	ARG	G	681	38.745	63.828	28.371	1.00 93.70	7
ATOM	14357	NH2	ARG	G	681	40.681	64.967	28.830	1.00 92.75	7
ATOM	14358	C	ARG	G	681	39.859	56.956	31.827	1.00137.79	6
ATOM	14359	O	ARG	G	681	39.253	56.244	31.026	1.00137.92	8
ATOM	14360	N	ASP	G	682	39.867	56.766	33.148	1.00104.99	7
ATOM	14361	CA	ASP	G	682	39.160	55.698	33.864	1.00103.46	6
ATOM	14362	CB	ASP	G	682	38.302	54.839	32.928	1.00163.15	6
ATOM	14363	CG	ASP	G	682	36.966	55.480	32.607	1.00165.34	6
ATOM	14364	OD1	ASP	G	682	36.219	55.807	33.555	1.00165.78	8
ATOM	14365	OD2	ASP	G	682	36.663	55.654	31.407	1.00166.58	8
ATOM	14366	C	ASP	G	682	40.116	54.788	34.625	1.00101.32	6
ATOM	14367	O	ASP	G	682	40.609	53.793	34.096	1.00101.09	8
ATOM	14368	N	ILE	G	683	40.374	55.144	35.875	1.00 86.94	7
ATOM	14369	CA	ILE							

ATOM	14384	O	LYS	G	684	41.218	52.069	40.344	1.00	72.45	8
ATOM	14385	N	ASP	G	685	39.204	52.350	41.324	1.00	46.96	7
ATOM	14386	CA	ASP	G	685	39.688	52.480	42.685	1.00	44.48	6
ATOM	14387	CB	ASP	G	685	38.530	52.193	43.654	1.00	38.62	6
ATOM	14388	CG	ASP	G	685	37.279	51.678	42.946	1.00	36.98	6
ATOM	14389	OD1	ASP	G	685	36.782	52.331	42.000	1.00	35.77	8
ATOM	14390	OD2	ASP	G	685	36.790	50.613	43.354	1.00	37.11	8
ATOM	14391	C	ASP	G	685	40.911	51.644	43.073	1.00	43.47	6
ATOM	14392	O	ASP	G	685	41.707	52.070	43.902	1.00	42.39	8
ATOM	14393	N	GLU	G	686	41.070	50.465	42.481	1.00	69.13	7
ATOM	14394	CA	GLU	G	686	42.200	49.600	42.819	1.00	68.84	6
ATOM	14395	CB	GLU	G	686	42.256	48.417	41.858	1.00	127.87	6
ATOM	14396	CG	GLU	G	686	40.977	47.618	41.806	1.00	130.65	6
ATOM	14397	CD	GLU	G	686	41.166	46.299	41.100	1.00	132.99	6
ATOM	14398	OE1	GLU	G	686	41.989	45.491	41.583	1.00	135.19	8
ATOM	14399	OE2	GLU	G	686	40.501	46.071	40.068	1.00	132.61	8
ATOM	14400	C	GLU	G	686	43.545	50.329	42.812	1.00	66.66	6
ATOM	14401	O	GLU	G	686	44.486	49.929	43.505	1.00	66.14	8
ATOM	14402	N	VAL	G	687	43.632	51.392	42.016	1.00	69.55	7
ATOM	14403	CA	VAL	G	687	44.851	52.174	41.934	1.00	66.75	6
ATOM	14404	CB	VAL	G	687	45.239	52.471	40.484	1.00	79.16	6
ATOM	14405	CG1	VAL	G	687	46.303	53.553	40.435	1.00	78.97	6
ATOM	14406	CG2	VAL	G	687	45.789	51.216	39.851	1.00	79.57	6
ATOM	14407	C	VAL	G	687	44.718	53.472	42.707	1.00	64.40	6
ATOM	14408	O	VAL	G	687	45.658	53.872	43.379	1.00	64.19	8
ATOM	14409	N	TRP	G	688	43.572	54.144	42.624	1.00	34.82	7
ATOM	14410	CA	TRP	G	688	43.430	55.369	43.400	1.00	32.17	6
ATOM	14411	CB	TRP	G	688	41.989	55.844	43.443	1.00	42.38	6
ATOM	14412	CG	TRP	G	688	41.674	56.816	42.383	1.00	40.93	6
ATOM	14413	CD2	TRP	G	688	42.522	57.840	41.883	1.00	39.77	6
ATOM	14414	CE2	TRP	G	688	41.824	58.495	40.852	1.00	39.82	6
ATOM	14415	CE3	TRP	G	688	43.806	58.267	42.197	1.00	40.07	6
ATOM	14416	CD1	TRP	G	688	40.526	56.892	41.667	1.00	41.78	6
ATOM	14417	NE1	TRP	G	688	40.601	57.895	40.741	1.00	41.05	7
ATOM	14418	CZ2	TRP	G	688	42.362	59.548	40.138	1.00	39.17	6
ATOM	14419	CZ3	TRP	G	688	44.343	59.315	41.486	1.00	40.39	6
ATOM	14420	CH2	TRP	G	688	43.622	59.943	40.466	1.00	40.16	6
ATOM	14421	C	TRP	G	688	43.902	55.069	44.811	1.00	31.35	6
ATOM	14422	O	TRP	G	688	44.760	55.767	45.347	1.00	31.58	8
ATOM	14423	N	ASP	G	689	43.357	54.011	45.398	1.00	36.23	7
ATOM	14424	CA	ASP	G	689	43.735	53.606	46.741	1.00	37.19	6
ATOM	14425	CB	ASP	G	689	43.048	52.289	47.130	1.00	84.86	6
ATOM	14426	CG	ASP	G	689	41.618	52.484	47.602	1.00	87.86	6
ATOM	14427	OD1	ASP	G	689	41.361	53.479	48.317	1.00	89.18	8
ATOM	14428	OD2	ASP	G	689	40.760	51.631	47.274	1.00	88.73	8
ATOM	14429	C	ASP	G	689	45.248	53.429	46.863	1.00	36.89	6
ATOM	14430	O	ASP	G	689	45.731	52.814	47.826	1.00	37.89	8
ATOM	14431	N	ALA	G	690	45.997	53.957	45.896	1.00	36.69	7
ATOM	14432	CA	ALA	G	690	47.452	53.859	45.925	1.00	35.82	6
ATOM	14433	CB	ALA	G	690	47.981	53.525	44.549	1.00	88.29	6
ATOM	14434	C	ALA	G	690	48.115	55.132	46.444	1.00	35.02	6
ATOM	14435	O	ALA	G	690	48.864	55.093	47.419	1.00	33.34	8
ATOM	14436	N	LEU	G	691	47.857	56.256	45.791	1.00	49.11	7
ATOM	14437	CA	LEU	G	691	48.454	57.496	46.245	1.00	49.90	6
ATOM	14438	CB	LEU	G	691	48.005	58.671	45.373	1.00	13.87	6
ATOM	14439	CG	LEU	G	691	48.000	58.476	43.864	1.00	13.87	6



ATOM	14440	CD1	LEU	G	691	46.955	57.450	43.541	1.00	13.87	6
ATOM	14441	CD2	LEU	G	691	47.696	59.765	43.155	1.00	13.87	6
ATOM	14442	C	LEU	G	691	47.959	57.681	47.679	1.00	52.48	6
ATOM	14443	O	LEU	G	691	48.702	58.115	48.566	1.00	53.88	8
ATOM	14444	N	GLU	G	692	46.695	57.335	47.908	1.00	97.21	7
ATOM	14445	CA	GLU	G	692	46.127	57.458	49.241	1.00	98.91	6
ATOM	14446	CB	GLU	G	692	44.691	56.904	49.282	1.00	73.29	6
ATOM	14447	CG	GLU	G	692	43.657	57.771	48.529	1.00	74.54	6
ATOM	14448	CD	GLU	G	692	42.246	57.166	48.487	1.00	74.13	6
ATOM	14449	OE1	GLU	G	692	41.698	56.858	49.564	1.00	74.43	8
ATOM	14450	OE2	GLU	G	692	41.678	57.009	47.381	1.00	73.17	8
ATOM	14451	C	GLU	G	692	47.045	56.672	50.161	1.00	99.71	6
ATOM	14452	O	GLU	G	692	46.965	56.794	51.383	1.00	101.25	8
ATOM	14453	N	GLU	G	693	47.925	55.872	49.556	1.00	33.70	7
ATOM	14454	CA	GLU	G	693	48.896	55.082	50.304	1.00	34.46	6
ATOM	14455	CB	GLU	G	693	48.758	53.589	50.003	1.00	74.88	6
ATOM	14456	CG	GLU	G	693	49.753	52.758	50.810	1.00	76.85	6
ATOM	14457	CD	GLU	G	693	49.538	51.266	50.693	1.00	78.68	6
ATOM	14458	OE1	GLU	G	693	48.424	50.798	51.016	1.00	80.74	8
ATOM	14459	OE2	GLU	G	693	50.489	50.562	50.288	1.00	78.64	8
ATOM	14460	C	GLU	G	693	50.340	55.516	50.035	1.00	34.30	6
ATOM	14461	O	GLU	G	693	51.218	55.305	50.872	1.00	34.92	8
ATOM	14462	N	VAL	G	694	50.592	56.111	48.869	1.00	62.59	7
ATOM	14463	CA	VAL	G	694	51.937	56.599	48.520	1.00	61.55	6
ATOM	14464	CB	VAL	G	694	52.059	56.888	47.012	1.00	42.74	6
ATOM	14465	CG1	VAL	G	694	53.492	57.256	46.661	1.00	42.49	6
ATOM	14466	CG2	VAL	G	694	51.591	55.692	46.227	1.00	43.31	6
ATOM	14467	C	VAL	G	694	52.120	57.919	49.257	1.00	60.03	6
ATOM	14468	O	VAL	G	694	52.919	58.033	50.190	1.00	58.95	8
ATOM	14469	N	ILE	G	695	51.356	58.905	48.802	1.00	46.85	7
ATOM	14470	CA	ILE	G	695	51.328	60.234	49.374	1.00	45.93	6
ATOM	14471	CB	ILE	G	695	49.973	60.907	49.079	1.00	45.86	6
ATOM	14472	CG2	ILE	G	695	49.745	62.097	50.004	1.00	45.84	6
ATOM	14473	CG1	ILE	G	695	49.912	61.321	47.619	1.00	46.05	6
ATOM	14474	CD1	ILE	G	695	48.638	62.051	47.274	1.00	46.62	6
ATOM	14475	C	ILE	G	695	51.475	60.143	50.882	1.00	45.93	6
ATOM	14476	O	ILE	G	695	51.982	61.060	51.530	1.00	46.59	8
ATOM	14477	N	HIS	G	696	51.029	59.027	51.440	1.00	37.20	7
ATOM	14478	CA	HIS	G	696	51.077	58.857	52.877	1.00	37.10	6
ATOM	14479	CB	HIS	G	696	50.621	57				

ATOM	14496	CE	LYS	G	698	56.521	58.890	48.915	1.00	64.81	6
ATOM	14497	NZ	LYS	G	698	56.228	58.133	47.662	1.00	66.75	7
ATOM	14498	C	LYS	G	698	54.250	63.853	52.015	1.00	27.60	6
ATOM	14499	O	LYS	G	698	53.036	63.973	52.102	1.00	27.52	8
ATOM	14500	N	VAL	G	699	55.083	64.874	51.951	1.00	33.63	7
ATOM	14501	CA	VAL	G	699	54.604	66.230	51.938	1.00	32.05	6
ATOM	14502	CB	VAL	G	699	55.314	67.082	52.960	1.00	18.04	6
ATOM	14503	CG1	VAL	G	699	55.126	66.500	54.326	1.00	18.53	6
ATOM	14504	CG2	VAL	G	699	56.773	67.201	52.596	1.00	19.26	6
ATOM	14505	C	VAL	G	699	54.944	66.769	50.576	1.00	30.37	6
ATOM	14506	O	VAL	G	699	55.728	66.163	49.851	1.00	30.18	8
ATOM	14507	N	VAL	G	700	54.362	67.910	50.237	1.00	47.17	7
ATOM	14508	CA	VAL	G	700	54.596	68.544	48.952	1.00	44.94	6
ATOM	14509	CB	VAL	G	700	53.392	68.344	48.028	1.00	13.87	6
ATOM	14510	CG1	VAL	G	700	53.590	69.095	46.740	1.00	13.87	6
ATOM	14511	CG2	VAL	G	700	53.226	66.882	47.730	1.00	13.87	6
ATOM	14512	C	VAL	G	700	54.809	70.032	49.173	1.00	45.13	6
ATOM	14513	O	VAL	G	700	54.151	70.623	50.025	1.00	46.25	8
ATOM	14514	N	LEU	G	701	55.733	70.635	48.425	1.00	31.56	7
ATOM	14515	CA	LEU	G	701	56.006	72.065	48.549	1.00	30.51	6
ATOM	14516	CB	LEU	G	701	57.398	72.389	48.014	1.00	19.40	6
ATOM	14517	CG	LEU	G	701	58.572	72.159	48.967	1.00	19.97	6
ATOM	14518	CD1	LEU	G	701	58.323	70.961	49.838	1.00	21.06	6
ATOM	14519	CD2	LEU	G	701	59.839	71.957	48.181	1.00	20.10	6
ATOM	14520	C	LEU	G	701	54.968	72.828	47.758	1.00	31.25	6
ATOM	14521	O	LEU	G	701	54.595	72.417	46.662	1.00	31.89	8
ATOM	14522	N	LEU	G	702	54.484	73.928	48.318	1.00	13.87	7
ATOM	14523	CA	LEU	G	702	53.486	74.743	47.625	1.00	13.87	6
ATOM	14524	CB	LEU	G	702	52.242	74.881	48.513	1.00	13.87	6
ATOM	14525	CG	LEU	G	702	50.864	74.734	47.879	1.00	13.87	6
ATOM	14526	CD1	LEU	G	702	50.695	75.788	46.818	1.00	13.87	6
ATOM	14527	CD2	LEU	G	702	50.730	73.382	47.268	1.00	13.87	6
ATOM	14528	C	LEU	G	702	54.159	76.101	47.362	1.00	16.31	6
ATOM	14529	O	LEU	G	702	54.962	76.538	48.171	1.00	15.48	8
ATOM	14530	N	ASN	G	703	53.880	76.766	46.245	1.00	34.74	7
ATOM	14531	CA	ASN	G	703	54.563	78.039	46.002	1.00	39.25	6
ATOM	14532	CB	ASN	G	703	55.876	77.807	45.251	1.00	63.81	6
ATOM	14533	CG	ASN	G	703	56.366	79.059	44.529	1.00	65.71	6
ATOM	14534	OD1	ASN	G	703	56.243	80.170	45.044	1.00	69.41	8
ATOM	14535	ND2	ASN	G	703	56.928	78.881	43.335	1.00	64.14	7
ATOM	14536	C	ASN	G	703	53.803	79.120	45.275	1.00	40.59	6
ATOM	14537	O	ASN	G	703	53.155	78.860	44.268	1.00	42.16	8
ATOM	14538	N	ARG	G	704	53.940	80.345	45.771	1.00	50.15	7
ATOM	14539	CA	ARG	G	704	53.276	81.509	45.195	1.00	51.77	6
ATOM	14540	CB	ARG	G	704	52.660	82.354	46.305	1.00	71.61	6
ATOM	14541	CG	ARG	G	704	52.414	83.815	45.942	1.00	72.56	6
ATOM	14542	CD	ARG	G	704	51.095	84.021	45.251	1.00	71.72	6
ATOM	14543	NE	ARG	G	704	50.763	85.437	45.220	1.00	71.33	7
ATOM	14544	CZ	ARG	G	704	49.553	85.901	44.945	1.00	72.09	6
ATOM	14545	NH1	ARG	G	704	48.577	85.053	44.679	1.00	73.18	7
ATOM	14546	NH2	ARG	G	704	49.313	87.203	44.948	1.00	72.05	7
ATOM	14547	C	ARG	G	704	54.199	82.390	44.361	1.00	52.25	6
ATOM	14548	O	ARG	G	704	55.392	82.505	44.647	1.00	53.60	8
ATOM	14549	N	ALA	G	705	53.597	83.032	43.359	1.00	59.29	7
ATOM	14550	CA	ALA	G	705	54.249	83.922	42.399	1.00	58.39	6
ATOM	14551	CB	ALA	G	705	53.238	84.941	41.897	1.00	32.08	6

ATOM	14552	C	ALA	G	705	55.545	84.625	42.811	1.00	58.27	6
ATOM	14553	O	ALA	G	705	56.603	83.996	42.855	1.00	60.43	8
ATOM	14554	N	PRO	G	706	55.498	85.935	43.107	1.00	47.84	7
ATOM	14555	CD	PRO	G	706	54.396	86.843	43.468	1.00	17.08	6
ATOM	14556	CA	PRO	G	706	56.779	86.531	43.484	1.00	47.16	6
ATOM	14557	CB	PRO	G	706	56.451	88.003	43.527	1.00	17.01	6
ATOM	14558	CG	PRO	G	706	55.126	87.975	44.165	1.00	16.10	6
ATOM	14559	C	PRO	G	706	57.174	86.004	44.846	1.00	47.25	6
ATOM	14560	O	PRO	G	706	56.429	86.168	45.807	1.00	47.58	8
ATOM	14561	N	THR	G	707	58.334	85.372	44.944	1.00	58.75	7
ATOM	14562	CA	THR	G	707	58.743	84.833	46.228	1.00	57.99	6
ATOM	14563	CB	THR	G	707	59.451	83.505	46.064	1.00	13.87	6
ATOM	14564	OG1	THR	G	707	58.738	82.713	45.112	1.00	13.87	8
ATOM	14565	CG2	THR	G	707	59.495	82.771	47.386	1.00	13.87	6
ATOM	14566	C	THR	G	707	59.654	85.778	46.977	1.00	58.21	6
ATOM	14567	O	THR	G	707	60.609	86.308	46.428	1.00	60.89	8
ATOM	14568	N	LEU	G	708	59.342	85.980	48.244	1.00	30.92	7
ATOM	14569	CA	LEU	G	708	60.101	86.854	49.113	1.00	30.27	6
ATOM	14570	CB	LEU	G	708	59.351	88.162	49.245	1.00	50.27	6
ATOM	14571	CG	LEU	G	708	58.937	88.593	47.835	1.00	52.01	6
ATOM	14572	CD1	LEU	G	708	57.711	89.509	47.857	1.00	51.20	6
ATOM	14573	CD2	LEU	G	708	60.148	89.245	47.172	1.00	52.56	6
ATOM	14574	C	LEU	G	708	60.078	86.063	50.398	1.00	29.61	6
ATOM	14575	O	LEU	G	708	59.076	85.442	50.704	1.00	31.01	8
ATOM	14576	N	HIS	G	709	61.163	86.074	51.152	1.00	20.02	7
ATOM	14577	CA	HIS	G	709	61.272	85.280	52.384	1.00	20.12	6
ATOM	14578	CB	HIS	G	709	60.578	85.957	53.596	1.00	26.13	6
ATOM	14579	CG	HIS	G	709	59.091	86.111	53.470	1.00	24.12	6
ATOM	14580	CD2	HIS	G	709	58.075	85.401	54.012	1.00	23.49	6
ATOM	14581	ND1	HIS	G	709	58.501	87.113	52.732	1.00	23.70	7
ATOM	14582	CE1	HIS	G	709	57.188	87.011	52.822	1.00	22.98	6
ATOM	14583	NE2	HIS	G	709	56.903	85.981	53.593	1.00	23.50	7
ATOM	14584	C	HIS	G	709	60.826	83.804	52.274	1.00	20.07	6
ATOM	14585	O	HIS	G	709	59.842	83.451	51.620	1.00	18.92	8
ATOM	14586	N	ARG	G	710	61.605	82.943	52.919	1.00	30.46	7
ATOM	14587	CA	ARG	G	710	61.350	81.509	52.947	1.00	29.87	6
ATOM	14588	CB	ARG	G	710	61.948	80.899	54.232	1.00	35.37	6
ATOM	14589	CG	ARG	G	710	61.425	81.525	55.516	1.00	36.40	6
ATOM	14590	CD	ARG	G	710	61.844	80.760	56.744	1.00	36.25	6
ATOM	14591	NE	ARG	G	710	63.271	80.851	56.985	1.00	38.39	7
ATOM	14592	CZ	ARG	G	710	63.846	80.480	58.123	1.00	39.64	6
ATOM	14593	NH1	ARG	G	710	63.105	79.993	59.111	1.00	38.83	7
ATOM	14594	NH2	ARG	G	710	65.155	80.613	58.286	1.00	40.25	7
ATOM	14595	C	ARG	G	710	59.869	81.174	52.882	1.00	29.14	6
ATOM	14596	O	ARG	G	710	59.472	80.272	52.157	1.00	29.02	8
ATOM	14597	N	LEU	G	711	59.058	81.904	53.647	1.00	43.22	7
ATOM	14598	CA	LEU	G	711	57.625	81.655	53.691	1.00	43.96	6
ATOM	14599	CB	LEU	G	711	56.963	82.450	54.829	1.00	16.37	6
ATOM	14600	CG	LEU	G	711	57.333	82.109	56.279	1.00	14.11	6
ATOM	14601	CD1	LEU	G	711	56.143	82.399	57.189	1.00	13.87	6
ATOM	14602	CD2	LEU	G	711	57.724	80.654	56.402	1.00	13.87	6
ATOM	14603	C	LEU	G	711	56.891	81.908	52.377	1.00	45.04	6
ATOM	14604	O	LEU	G	711	55.711	82.243	52.366	1.00	44.80	8
ATOM	14605	N	GLY	G	712	57.596	81.745	51.268	1.00	40.20	7
ATOM	14606	CA	GLY	G	712	56.967	81.915	49.975	1.00	42.22	6
ATOM	14607	C	GLY	G	712	56.672	80.521	49.457	1.00	42.67	6

ATOM	14608	O	GLY	G	712	55.797	80.307	48.613	1.00	43.12	8
ATOM	14609	N	ILE	G	713	57.421	79.559	49.982	1.00	50.14	7
ATOM	14610	CA	ILE	G	713	57.247	78.175	49.600	1.00	50.51	6
ATOM	14611	CB	ILE	G	713	58.585	77.466	49.474	1.00	52.75	6
ATOM	14612	CG2	ILE	G	713	58.367	75.975	49.301	1.00	54.09	6
ATOM	14613	CG1	ILE	G	713	59.340	78.033	48.273	1.00	54.70	6
ATOM	14614	CD1	ILE	G	713	60.627	77.306	47.966	1.00	55.45	6
ATOM	14615	C	ILE	G	713	56.367	77.416	50.584	1.00	49.30	6
ATOM	14616	O	ILE	G	713	55.180	77.240	50.329	1.00	50.35	8
ATOM	14617	N	ALA	G	714	56.923	76.969	51.707	1.00	30.45	7
ATOM	14618	CA	ALA	G	714	56.121	76.216	52.685	1.00	27.60	6
ATOM	14619	CB	ALA	G	714	54.934	77.079	53.186	1.00	31.44	6
ATOM	14620	C	ALA	G	714	55.624	74.860	52.124	1.00	25.04	6
ATOM	14621	O	ALA	G	714	54.949	74.776	51.094	1.00	23.08	8
ATOM	14622	N	ALA	G	715	55.984	73.792	52.814	1.00	27.33	7
ATOM	14623	CA	ALA	G	715	55.615	72.463	52.370	1.00	27.59	6
ATOM	14624	CB	ALA	G	715	56.794	71.514	52.516	1.00	132.96	6
ATOM	14625	C	ALA	G	715	54.449	71.944	53.153	1.00	26.48	6
ATOM	14626	O	ALA	G	715	54.288	72.269	54.326	1.00	26.56	8
ATOM	14627	N	PHE	G	716	53.655	71.114	52.494	1.00	19.00	7
ATOM	14628	CA	PHE	G	716	52.473	70.531	53.091	1.00	17.79	6
ATOM	14629	CB	PHE	G	716	51.230	71.159	52.467	1.00	15.42	6
ATOM	14630	CG	PHE	G	716	51.170	72.650	52.614	1.00	14.59	6
ATOM	14631	CD1	PHE	G	716	51.584	73.482	51.583	1.00	14.85	6
ATOM	14632	CD2	PHE	G	716	50.675	73.232	53.781	1.00	14.00	6
ATOM	14633	CE1	PHE	G	716	51.500	74.876	51.716	1.00	14.43	6
ATOM	14634	CE2	PHE	G	716	50.590	74.615	53.913	1.00	13.99	6
ATOM	14635	CZ	PHE	G	716	51.001	75.435	52.884	1.00	13.99	6
ATOM	14636	C	PHE	G	716	52.461	69.026	52.870	1.00	17.00	6
ATOM	14637	O	PHE	G	716	53.463	68.462	52.463	1.00	16.45	8
ATOM	14638	N	GLN	G	717	51.327	68.396	53.173	1.00	26.66	7
ATOM	14639	CA	GLN	G	717	51.111	66.963	52.979	1.00	28.92	6
ATOM	14640	CB	GLN	G	717	50.809	66.272	54.308	1.00	36.50	6
ATOM	14641	CG	GLN	G	717	52.049	65.885	55.102	1.00	40.15	6
ATOM	14642	CD	GLN	G	717	51.735	65.009	56.304	1.00	42.75	6
ATOM	14643	OE1	GLN	G	717	50.871	64.136	56.237	1.00	45.51	8
ATOM	14644	NE2	GLN	G	717	52.450	65.226	57.405	1.00	42.90	7
ATOM	14645	C	GLN	G	717	49.890	66.920	52.063	1.00	28.79	6
ATOM	14646	O	GLN	G	717	48.896	67.574	52.342	1.00	31.04	8
ATOM	14647	N	PRO	G	718	49.938	66.156	50.960</			

ATOM	14664	CG	LEU	G	720	44.124	62.364	46.165	1.00	13.87	6
ATOM	14665	CD1	LEU	G	720	45.426	62.116	46.909	1.00	13.87	6
ATOM	14666	CD2	LEU	G	720	43.669	61.121	45.462	1.00	14.34	6
ATOM	14667	C	LEU	G	720	41.914	65.048	47.463	1.00	22.73	6
ATOM	14668	O	LEU	G	720	41.010	64.773	48.258	1.00	21.44	8
ATOM	14669	N	VAL	G	721	41.821	65.988	46.529	1.00	39.17	7
ATOM	14670	CA	VAL	G	721	40.662	66.845	46.364	1.00	42.72	6
ATOM	14671	CB	VAL	G	721	41.084	68.336	46.571	1.00	54.49	6
ATOM	14672	CG1	VAL	G	721	39.872	69.250	46.548	1.00	55.85	6
ATOM	14673	CG2	VAL	G	721	41.824	68.491	47.893	1.00	55.86	6
ATOM	14674	C	VAL	G	721	40.043	66.657	44.971	1.00	44.38	6
ATOM	14675	O	VAL	G	721	40.421	65.758	44.225	1.00	44.51	8
ATOM	14676	N	GLU	G	722	39.101	67.527	44.628	1.00	58.78	7
ATOM	14677	CA	GLU	G	722	38.424	67.463	43.353	1.00	59.57	6
ATOM	14678	CB	GLU	G	722	37.169	68.324	43.393	1.00	85.56	6
ATOM	14679	CG	GLU	G	722	35.947	67.470	43.233	1.00	89.94	6
ATOM	14680	CD	GLU	G	722	36.237	66.029	43.613	1.00	92.32	6
ATOM	14681	OE1	GLU	G	722	36.653	65.793	44.770	1.00	93.46	8
ATOM	14682	OE2	GLU	G	722	36.066	65.141	42.750	1.00	93.50	8
ATOM	14683	C	GLU	G	722	39.214	67.763	42.090	1.00	59.65	6
ATOM	14684	O	GLU	G	722	40.318	67.241	41.902	1.00	61.04	8
ATOM	14685	N	GLY	G	723	38.645	68.603	41.226	1.00	40.93	7
ATOM	14686	CA	GLY	G	723	39.284	68.889	39.950	1.00	38.76	6
ATOM	14687	C	GLY	G	723	39.825	70.263	39.617	1.00	37.33	6
ATOM	14688	O	GLY	G	723	39.082	71.224	39.425	1.00	37.23	8
ATOM	14689	N	GLN	G	724	41.141	70.325	39.476	1.00	29.06	7
ATOM	14690	CA	GLN	G	724	41.822	71.559	39.176	1.00	26.74	6
ATOM	14691	CB	GLN	G	724	41.145	72.288	38.022	1.00	40.38	6
ATOM	14692	CG	GLN	G	724	41.719	71.923	36.651	1.00	42.31	6
ATOM	14693	CD	GLN	G	724	41.394	70.507	36.235	1.00	42.14	6
ATOM	14694	OE1	GLN	G	724	41.978	69.967	35.296	1.00	40.27	8
ATOM	14695	NE2	GLN	G	724	40.443	69.903	36.925	1.00	43.33	7
ATOM	14696	C	GLN	G	724	41.845	72.412	40.427	1.00	25.18	6
ATOM	14697	O	GLN	G	724	41.233	72.061	41.436	1.00	25.52	8
ATOM	14698	N	SER	G	725	42.563	73.526	40.356	1.00	19.49	7
ATOM	14699	CA	SER	G	725	42.723	74.435	41.485	1.00	17.67	6
ATOM	14700	CB	SER	G	725	41.448	75.274	41.705	1.00	13.87	6
ATOM	14701	OG	SER	G	725	40.322	74.505	42.059	1.00	13.87	8
ATOM	14702	C	SER	G	725	43.126	73.699	42.768	1.00	16.50	6
ATOM	14703	O	SER	G	725	42.358	72.896	43.299	1.00	16.70	8
ATOM	14704	N	ILE	G	726	44.345	73.952	43.246	1.00	20.69	7
ATOM	14705	CA	ILE	G	726	44.817	73.305	44.465	1.00	19.81	6
ATOM	14706	CB	ILE	G	726	46.353	73.548	44.721	1.00	14.20	6
ATOM	14707	CG2	ILE	G	726	46.787	72.857	45.997	1.00	14.20	6
ATOM	14708	CG1	ILE	G	726	47.218	72.976	43.589	1.00	14.72	6
ATOM	14709	CD1	ILE	G	726	47.303	73.852	42.353	1.00	17.23	6
ATOM	14710	C	ILE	G	726	44.013	73.960	45.571	1.00	18.92	6
ATOM	14711	O	ILE	G	726	43.654	75.116	45.448	1.00	19.18	8
ATOM	14712	N	GLN	G	727	43.706	73.220	46.629	1.00	13.87	7
ATOM	14713	CA	GLN	G	727	42.950	73.767	47.749	1.00	14.48	6
ATOM	14714	CB	GLN	G	727	41.992	72.722	48.305	1.00	24.01	6
ATOM	14715	CG	GLN	G	727	40.716	72.603	47.528	1.00	23.54	6
ATOM	14716	CD	GLN	G	727	39.644	71.914	48.326	1.00	25.34	6
ATOM	14717	OE1	GLN	G	727	38.481	71.856	47.916	1.00	25.77	8
ATOM	14718	NE2	GLN	G	727	40.024	71.385	49.484	1.00	24.98	7
ATOM	14719	C	GLN	G	727	43.880	74.231	48.861	1.00	15.32	6

ATOM	14720	O	GLN	G	727	44.431	73.397	49.595	1.00	15.78	8
ATOM	14721	N	LEU	G	728	44.036	75.551	48.999	1.00	34.39	7
ATOM	14722	CA	LEU	G	728	44.936	76.142	49.998	1.00	34.99	6
ATOM	14723	CB	LEU	G	728	45.629	77.342	49.375	1.00	13.87	6
ATOM	14724	CG	LEU	G	728	46.750	78.040	50.121	1.00	13.87	6
ATOM	14725	CD1	LEU	G	728	48.094	77.459	49.744	1.00	13.87	6
ATOM	14726	CD2	LEU	G	728	46.684	79.521	49.760	1.00	14.94	6
ATOM	14727	C	LEU	G	728	44.221	76.547	51.289	1.00	36.53	6
ATOM	14728	O	LEU	G	728	43.030	76.852	51.260	1.00	39.24	8
ATOM	14729	N	HIS	G	729	44.958	76.569	52.406	1.00	28.88	7
ATOM	14730	CA	HIS	G	729	44.410	76.873	53.753	1.00	28.66	6
ATOM	14731	CB	HIS	G	729	45.146	76.010	54.768	1.00	28.50	6
ATOM	14732	CG	HIS	G	729	44.943	76.434	56.180	1.00	27.76	6
ATOM	14733	CD2	HIS	G	729	45.810	76.543	57.210	1.00	28.21	6
ATOM	14734	ND1	HIS	G	729	43.711	76.769	56.683	1.00	29.65	7
ATOM	14735	CE1	HIS	G	729	43.823	77.062	57.965	1.00	29.49	6
ATOM	14736	NE2	HIS	G	729	45.088	76.929	58.310	1.00	27.87	7
ATOM	14737	C	HIS	G	729	44.379	78.327	54.268	1.00	29.30	6
ATOM	14738	O	HIS	G	729	45.418	78.897	54.595	1.00	30.59	8
ATOM	14739	N	PRO	G	730	43.172	78.898	54.453	1.00	38.51	7
ATOM	14740	CD	PRO	G	730	41.999	78.112	54.848	1.00	22.47	6
ATOM	14741	CA	PRO	G	730	42.985	80.273	54.917	1.00	38.14	6
ATOM	14742	CB	PRO	G	730	41.629	80.230	55.616	1.00	20.38	6
ATOM	14743	CG	PRO	G	730	41.543	78.863	56.079	1.00	21.03	6
ATOM	14744	C	PRO	G	730	44.062	80.919	55.768	1.00	38.03	6
ATOM	14745	O	PRO	G	730	44.247	82.127	55.671	1.00	39.63	8
ATOM	14746	N	LEU	G	731	44.775	80.165	56.596	1.00	15.71	7
ATOM	14747	CA	LEU	G	731	45.818	80.814	57.392	1.00	14.59	6
ATOM	14748	CB	LEU	G	731	46.174	80.013	58.649	1.00	17.32	6
ATOM	14749	CG	LEU	G	731	45.183	80.029	59.815	1.00	17.32	6
ATOM	14750	CD1	LEU	G	731	45.812	79.365	61.015	1.00	17.76	6
ATOM	14751	CD2	LEU	G	731	44.812	81.449	60.158	1.00	17.32	6
ATOM	14752	C	LEU	G	731	47.077	81.031	56.567	1.00	15.18	6
ATOM	14753	O	LEU	G	731	47.641	82.129	56.521	1.00	15.61	8
ATOM	14754	N	VAL	G	732	47.523	79.981	55.905	1.00	23.13	7
ATOM	14755	CA	VAL	G	732	48.711	80.082	55.090	1.00	25.05	6
ATOM	14756	CB	VAL	G	732	48.870	78.821	54.249	1.00	18.02	6
ATOM	14757	CG1	VAL	G	732	49.744	79.112	53.040	1.00	19.24	6
ATOM	14758	CG2	VAL	G	732	49.466	77.715	55.108	1.00	17.58	6
ATOM	14759	C	VAL	G	732	48.684	81.317	54.187	1.00	26.23	6
ATOM	14760	O	VAL	G	732	49.691	81.988	54.011	1.00	26.14	8
ATOM	14761	N	CYS	G	733	47.528	81.629	53.631	1.00	29.02	7
ATOM	14762	CA	CYS	G	733	47.435	82.778	52.755	1.00	30.73	6
ATOM	14763	CB	CYS	G	733	46.038	83.382	52.829	1.00	33.46	6
ATOM	14764	SG	CYS	G	733	44.897	82.520	51.784	1.00	39.09	16
ATOM	14765	C	CYS	G	733	48.479	83.856	53.020	1.00	30.47	6
ATOM	14766	O	CYS	G	733	49.531	83.876	52.383	1.00	32.24	8
ATOM	14767	N	GLU	G	734	48.180	84.733	53.975	1.00	19.36	7
ATOM	14768	CA	GLU	G	734	49.028	85.864	54.357	1.00	17.14	6
ATOM	14769	CB	GLU	G	734	48.860	86.141	55.846	1.00	56.42	6
ATOM	14770	CG	GLU	G	734	49.561	87.391	56.299	1.00	60.62	6
ATOM	14771	CD	GLU	G	734	49.045	87.879	57.625	1.00	63.07	6
ATOM	14772	OE1	GLU	G	734	47.849	88.241	57.691	1.00	62.92	8
ATOM	14773	OE2	GLU	G	734	49.828	87.895	58.598	1.00	64.54	8
ATOM	14774	C	GLU	G	734	50.499	85.746	54.023	1.00	14.32	6
ATOM	14775	O	GLU	G	734	50.974	86.402	53.116	1.00	13.87	8

ATOM	14776	N	ALA	G	735	51.218	84.918	54.766	1.00	19.50	7
ATOM	14777	CA	ALA	G	735	52.630	84.731	54.524	1.00	18.84	6
ATOM	14778	CB	ALA	G	735	53.089	83.451	55.136	1.00	52.86	6
ATOM	14779	C	ALA	G	735	52.867	84.698	53.040	1.00	19.82	6
ATOM	14780	O	ALA	G	735	53.674	85.471	52.544	1.00	21.91	8
ATOM	14781	N	PHE	G	736	52.147	83.811	52.341	1.00	19.80	7
ATOM	14782	CA	PHE	G	736	52.236	83.618	50.865	1.00	19.91	6
ATOM	14783	CB	PHE	G	736	51.409	82.416	50.394	1.00	39.31	6
ATOM	14784	CG	PHE	G	736	51.977	81.077	50.761	1.00	41.46	6
ATOM	14785	CD1	PHE	G	736	52.558	80.850	52.013	1.00	43.08	6
ATOM	14786	CD2	PHE	G	736	51.850	80.012	49.881	1.00	41.14	6
ATOM	14787	CE1	PHE	G	736	52.998	79.575	52.384	1.00	43.64	6
ATOM	14788	CE2	PHE	G	736	52.280	78.749	50.236	1.00	42.45	6
ATOM	14789	CZ	PHE	G	736	52.856	78.527	51.494	1.00	42.53	6
ATOM	14790	C	PHE	G	736	51.667	84.793	50.117	1.00	18.63	6
ATOM	14791	O	PHE	G	736	52.102	85.119	49.028	1.00	18.17	8
ATOM	14792	N	ASN	G	737	50.662	85.403	50.721	1.00	19.99	7
ATOM	14793	CA	ASN	G	737	49.949	86.514	50.131	1.00	22.37	6
ATOM	14794	CB	ASN	G	737	50.877	87.656	49.691	1.00	28.87	6
ATOM	14795	CG	ASN	G	737	50.097	88.878	49.168	1.00	30.91	6
ATOM	14796	OD1	ASN	G	737	49.308	88.769	48.218	1.00	31.45	8
ATOM	14797	ND2	ASN	G	737	50.309	90.035	49.793	1.00	30.32	7
ATOM	14798	C	ASN	G	737	49.277	85.924	48.920	1.00	22.93	6
ATOM	14799	O	ASN	G	737	49.951	85.516	47.972	1.00	23.26	8
ATOM	14800	N	ALA	G	738	47.949	85.881	48.946	1.00	41.86	7
ATOM	14801	CA	ALA	G	738	47.236	85.321	47.826	1.00	42.97	6
ATOM	14802	CB	ALA	G	738	47.570	83.841	47.724	1.00	39.26	6
ATOM	14803	C	ALA	G	738	45.747	85.480	47.934	1.00	43.00	6
ATOM	14804	O	ALA	G	738	45.103	84.559	48.379	1.00	44.08	8
ATOM	14805	N	ASP	G	739	45.160	86.603	47.547	1.00	25.53	7
ATOM	14806	CA	ASP	G	739	43.705	86.612	47.670	1.00	26.98	6
ATOM	14807	CB	ASP	G	739	43.087	88.033	47.761	1.00	31.33	6
ATOM	14808	CG	ASP	G	739	42.968	88.730	46.433	1.00	31.96	6
ATOM	14809	OD1	ASP	G	739	43.985	89.271	45.959	1.00	34.21	8
ATOM	14810	OD2	ASP	G	739	41.854	88.748	45.870	1.00	29.43	8
ATOM	14811	C	ASP	G	739	43.133	85.797	46.517	1.00	27.24	6
ATOM	14812	O	ASP	G	739	43.441	86.016	45.348	1.00	27.57	8
ATOM	14813	N	PHE	G	740	42.326	84.813	46.876	1.00	27.06	7
ATOM	14814	CA	PHE	G	740	41.742	83.926	45.906	1.00	26.36	6
ATOM	14815	CB	PHE	G	740	40.870	82.885	46.610	1.00		

ATOM	14832	N	GLY	G	742	41.990	84.552	41.306	1.00	39.80	7
ATOM	14833	CA	GLY	G	742	42.645	84.208	40.059	1.00	41.21	6
ATOM	14834	C	GLY	G	742	44.089	83.790	40.265	1.00	41.72	6
ATOM	14835	O	GLY	G	742	44.799	83.499	39.308	1.00	41.86	8
ATOM	14836	N	ASP	G	743	44.527	83.748	41.516	1.00	23.67	7
ATOM	14837	CA	ASP	G	743	45.902	83.382	41.804	1.00	23.48	6
ATOM	14838	CB	ASP	G	743	46.229	83.625	43.276	1.00	42.73	6
ATOM	14839	CG	ASP	G	743	46.325	85.094	43.613	1.00	44.71	6
ATOM	14840	OD1	ASP	G	743	46.874	85.850	42.782	1.00	46.33	8
ATOM	14841	OD2	ASP	G	743	45.876	85.487	44.713	1.00	44.74	8
ATOM	14842	C	ASP	G	743	46.243	81.950	41.447	1.00	22.67	6
ATOM	14843	O	ASP	G	743	45.377	81.102	41.346	1.00	22.59	8
ATOM	14844	N	GLN	G	744	47.526	81.693	41.253	1.00	42.42	7
ATOM	14845	CA	GLN	G	744	47.992	80.366	40.919	1.00	41.78	6
ATOM	14846	CB	GLN	G	744	48.379	80.290	39.458	1.00	42.22	6
ATOM	14847	CG	GLN	G	744	47.269	80.439	38.494	1.00	43.50	6
ATOM	14848	CD	GLN	G	744	47.612	79.718	37.221	1.00	45.81	6
ATOM	14849	OE1	GLN	G	744	47.743	78.498	37.217	1.00	45.52	8
ATOM	14850	NE2	GLN	G	744	47.784	80.461	36.135	1.00	48.73	7
ATOM	14851	C	GLN	G	744	49.221	80.048	41.746	1.00	40.15	6
ATOM	14852	O	GLN	G	744	50.001	80.944	42.073	1.00	40.06	8
ATOM	14853	N	MET	G	745	49.396	78.771	42.071	1.00	13.87	7
ATOM	14854	CA	MET	G	745	50.539	78.343	42.844	1.00	13.87	6
ATOM	14855	CB	MET	G	745	50.118	77.959	44.264	1.00	14.30	6
ATOM	14856	CG	MET	G	745	50.036	79.178	45.179	1.00	14.30	6
ATOM	14857	SD	MET	G	745	49.811	78.869	46.948	1.00	16.68	16
ATOM	14858	CE	MET	G	745	47.967	79.149	47.112	1.00	14.30	6
ATOM	14859	C	MET	G	745	51.164	77.182	42.134	1.00	13.87	6
ATOM	14860	O	MET	G	745	50.503	76.535	41.336	1.00	13.87	8
ATOM	14861	N	ALA	G	746	52.449	76.952	42.384	1.00	16.13	7
ATOM	14862	CA	ALA	G	746	53.153	75.832	41.780	1.00	18.41	6
ATOM	14863	CB	ALA	G	746	54.607	76.155	41.638	1.00	13.87	6
ATOM	14864	C	ALA	G	746	52.948	74.658	42.739	1.00	19.55	6
ATOM	14865	O	ALA	G	746	52.069	74.729	43.598	1.00	20.61	8
ATOM	14866	N	VAL	G	747	53.725	73.583	42.633	1.00	30.45	7
ATOM	14867	CA	VAL	G	747	53.484	72.472	43.551	1.00	30.58	6
ATOM	14868	CB	VAL	G	747	52.094	71.826	43.235	1.00	23.22	6
ATOM	14869	CG1	VAL	G	747	52.163	71.029	41.937	1.00	23.65	6
ATOM	14870	CG2	VAL	G	747	51.630	70.976	44.392	1.00	23.96	6
ATOM	14871	C	VAL	G	747	54.554	71.379	43.631</			



ATOM	14888	C	VAL	G	749	58.918	67.020	45.436	1.00	27.56	6
ATOM	14889	O	VAL	G	749	59.729	66.755	44.553	1.00	28.62	8
ATOM	14890	N	PRO	G	750	59.265	67.021	46.746	1.00	22.28	7
ATOM	14891	CD	PRO	G	750	58.541	67.396	47.971	1.00	17.65	6
ATOM	14892	CA	PRO	G	750	60.645	66.633	47.061	1.00	22.70	6
ATOM	14893	CB	PRO	G	750	60.723	66.788	48.589	1.00	17.39	6
ATOM	14894	CG	PRO	G	750	59.320	66.656	49.039	1.00	17.73	6
ATOM	14895	C	PRO	G	750	60.784	65.193	46.566	1.00	23.59	6
ATOM	14896	O	PRO	G	750	59.841	64.395	46.657	1.00	23.30	8
ATOM	14897	N	LEU	G	751	61.952	64.866	46.032	1.00	58.94	7
ATOM	14898	CA	LEU	G	751	62.143	63.557	45.439	1.00	60.91	6
ATOM	14899	CB	LEU	G	751	62.309	63.747	43.935	1.00	52.80	6
ATOM	14900	CG	LEU	G	751	62.109	62.554	43.016	1.00	55.13	6
ATOM	14901	CD1	LEU	G	751	60.636	62.428	42.674	1.00	54.73	6
ATOM	14902	CD2	LEU	G	751	62.934	62.751	41.760	1.00	54.76	6
ATOM	14903	C	LEU	G	751	63.302	62.723	45.959	1.00	61.93	6
ATOM	14904	O	LEU	G	751	63.539	61.626	45.458	1.00	63.68	8
ATOM	14905	N	SER	G	752	64.025	63.218	46.957	1.00	43.89	7
ATOM	14906	CA	SER	G	752	65.171	62.476	47.479	1.00	42.39	6
ATOM	14907	CB	SER	G	752	66.460	63.167	47.028	1.00	31.08	6
ATOM	14908	OG	SER	G	752	66.202	64.486	46.543	1.00	28.73	8
ATOM	14909	C	SER	G	752	65.192	62.301	48.991	1.00	42.78	6
ATOM	14910	O	SER	G	752	65.996	62.931	49.657	1.00	43.79	8
ATOM	14911	N	SER	G	753	64.321	61.439	49.517	1.00	26.53	7
ATOM	14912	CA	SER	G	753	64.231	61.172	50.959	1.00	26.13	6
ATOM	14913	CB	SER	G	753	64.985	59.903	51.320	1.00	29.71	6
ATOM	14914	OG	SER	G	753	65.030	59.763	52.721	1.00	27.27	8
ATOM	14915	C	SER	G	753	64.759	62.312	51.804	1.00	26.42	6
ATOM	14916	O	SER	G	753	63.997	62.995	52.471	1.00	26.57	8
ATOM	14917	N	PHE	G	754	66.072	62.493	51.793	1.00	36.84	7
ATOM	14918	CA	PHE	G	754	66.709	63.587	52.512	1.00	38.63	6
ATOM	14919	CB	PHE	G	754	68.147	63.775	51.997	1.00	47.55	6
ATOM	14920	CG	PHE	G	754	69.144	64.147	53.061	1.00	49.17	6
ATOM	14921	CD1	PHE	G	754	70.449	63.677	52.996	1.00	49.98	6
ATOM	14922	CD2	PHE	G	754	68.778	64.934	54.141	1.00	50.57	6
ATOM	14923	CE1	PHE	G	754	71.370	63.978	53.996	1.00	50.17	6
ATOM	14924	CE2	PHE	G	754	69.697	65.239	55.147	1.00	51.20	6
ATOM	14925	CZ	PHE	G	754	70.993	64.756	55.071	1.00	50.82	6
ATOM	14926	C	PHE	G	754	65.887	64.845	52.206	1.00	39.18	6
ATOM	14927	O	PHE	G	754	65.482	65.566	53.114	1.00	39.46	8
ATOM	14928	N	ALA	G	755	65.625	65.078	50.921	1.00	30.87	7
ATOM	14929	CA	ALA	G	755	64.868	66.243	50.463	1.00	31.35	6
ATOM	14930	CB	ALA	G	755	64.803	66.260	48.943	1.00	58.86	6
ATOM	14931	C	ALA	G	755	63.465	66.289	51.027	1.00	31.07	6
ATOM	14932	O	ALA	G	755	62.848	67.347	51.106	1.00	31.27	8
ATOM	14933	N	GLN	G	756	62.958	65.128	51.404	1.00	24.89	7
ATOM	14934	CA	GLN	G	756	61.625	65.025	51.957	1.00	24.71	6
ATOM	14935	CB	GLN	G	756	61.111	63.598	51.746	1.00	24.28	6
ATOM	14936	CG	GLN	G	756	59.671	63.346	52.145	1.00	24.69	6
ATOM	14937	CD	GLN	G	756	58.695	64.009	51.208	1.00	25.03	6
ATOM	14938	OE1	GLN	G	756	58.925	64.069	50.002	1.00	24.26	8
ATOM	14939	NE2	GLN	G	756	57.585	64.492	51.748	1.00	26.11	7
ATOM	14940	C	GLN	G	756	61.709	65.358	53.448	1.00	25.94	6
ATOM	14941	O	GLN	G	756	60.991	66.222	53.953	1.00	25.96	8
ATOM	14942	N	ALA	G	757	62.608	64.675	54.146	1.00	51.89	7
ATOM	14943	CA	ALA	G	757	62.765	64.876	55.575	1.00	52.36	6

ATOM	14944	CB	ALA	G	757	63.846	63.973	56.126	1.00	33.89	6
ATOM	14945	C	ALA	G	757	63.090	66.308	55.900	1.00	52.19	6
ATOM	14946	O	ALA	G	757	62.688	66.799	56.944	1.00	52.90	8
ATOM	14947	N	GLU	G	758	63.809	66.990	55.019	1.00	39.08	7
ATOM	14948	CA	GLU	G	758	64.162	68.373	55.313	1.00	39.81	6
ATOM	14949	CB	GLU	G	758	65.576	68.712	54.805	1.00	54.36	6
ATOM	14950	CG	GLU	G	758	65.834	68.472	53.329	1.00	58.27	6
ATOM	14951	CD	GLU	G	758	67.213	68.949	52.906	1.00	59.69	6
ATOM	14952	OE1	GLU	G	758	68.185	68.697	53.652	1.00	60.05	8
ATOM	14953	OE2	GLU	G	758	67.327	69.566	51.825	1.00	61.43	8
ATOM	14954	C	GLU	G	758	63.150	69.372	54.789	1.00	38.43	6
ATOM	14955	O	GLU	G	758	63.213	70.555	55.092	1.00	39.11	8
ATOM	14956	N	ALA	G	759	62.206	68.907	53.999	1.00	30.91	7
ATOM	14957	CA	ALA	G	759	61.202	69.823	53.519	1.00	30.09	6
ATOM	14958	CB	ALA	G	759	60.930	69.593	52.057	1.00	40.69	6
ATOM	14959	C	ALA	G	759	59.956	69.566	54.341	1.00	30.03	6
ATOM	14960	O	ALA	G	759	58.867	69.952	53.941	1.00	28.91	8
ATOM	14961	N	ARG	G	760	60.133	68.901	55.483	1.00	50.71	7
ATOM	14962	CA	ARG	G	760	59.027	68.591	56.389	1.00	51.90	6
ATOM	14963	CB	ARG	G	760	58.376	67.252	56.015	1.00	69.53	6
ATOM	14964	CG	ARG	G	760	59.276	66.045	56.186	1.00	73.92	6
ATOM	14965	CD	ARG	G	760	58.511	64.739	56.035	1.00	77.04	6
ATOM	14966	NE	ARG	G	760	57.452	64.577	57.029	1.00	80.23	7
ATOM	14967	CZ	ARG	G	760	56.795	63.437	57.206	1.00	82.53	6
ATOM	14968	NH1	ARG	G	760	57.103	62.391	56.457	1.00	81.99	7
ATOM	14969	NH2	ARG	G	760	55.839	63.330	58.119	1.00	84.32	7
ATOM	14970	C	ARG	G	760	59.445	68.560	57.870	1.00	51.26	6
ATOM	14971	O	ARG	G	760	58.798	67.920	58.702	1.00	51.59	8
ATOM	14972	N	ILE	G	761	60.533	69.247	58.192	1.00	75.37	7
ATOM	14973	CA	ILE	G	761	61.030	69.334	59.561	1.00	73.54	6
ATOM	14974	CB	ILE	G	761	62.199	68.341	59.812	1.00	18.31	6
ATOM	14975	CG2	ILE	G	761	63.146	68.851	60.906	1.00	17.14	6
ATOM	14976	CG1	ILE	G	761	61.624	66.981	60.185	1.00	15.32	6
ATOM	14977	CD1	ILE	G	761	62.660	66.013	60.667	1.00	14.10	6
ATOM	14978	C	ILE	G	761	61.516	70.760	59.688	1.00	73.70	6
ATOM	14979	O	ILE	G	761	61.585	71.333	60.770	1.00	74.84	8
ATOM	14980	N	GLN	G	762	61.829	71.340	58.547	1.00	33.05	7
ATOM	14981	CA	GLN	G	762	62.296	72.695	58.529	1.00	32.66	6
ATOM	14982	CB	GLN	G	762	63.647	72.785	57.828	1.00	25.09	6
ATOM	14983	CG	GLN	G	762	64.372	71.438	57.709	1.00	25.21	6
ATOM	14984	CD	GLN	G	762	65.869	71.568	57.457	1.00	24.08	6
ATOM	14985	OE1	GLN	G	762	66.326	72.311	56.573	1.00	21.31	8
ATOM	14986	NE2	GLN	G	762	66.637	70.834	58.238	1.00	22.16	7
ATOM	14987	C	GLN	G	762	61.299	73.574	57.821	1.00	32.37	6
ATOM	14988	O	GLN	G	762	61.004	74.646	58.323	1.00	33.51	8
ATOM	14989	N	MET	G	763	60.761	73.131	56.678	1.00	19.86	7
ATOM	14990	CA	MET	G	763	59.813	73.963	55.929	1.00	18.23	6
ATOM	14991	CB	MET	G	763	60.396	74.329	54.552	1.00	32.01	6
ATOM	14992	CG	MET	G	763	60.883	73.195	53.672	1.00	33.31	6
ATOM	14993	SD	MET	G	763	61.784	73.838	52.207	1.00	36.23	16
ATOM	14994	CE	MET	G	763	60.664	73.538	50.886	1.00	36.79	6
ATOM	14995	C	MET	G	763	58.347	73.571	55.761	1.00	17.68	6
ATOM	14996	O	MET	G	763	57.710	73.994	54.808	1.00	16.85	8
ATOM	14997	N	LEU	G	764	57.800	72.793	56.691	1.00	34.27	7
ATOM	14998	CA	LEU	G	764	56.380	72.400	56.651	1.00	33.31	6
ATOM	14999	CB	LEU	G	764	56.139	71.158	57.515	1.00	13.87	6

ATOM	15000	CG	LEU	G	764	54.721	71.047	58.039	1.00	13.87	6
ATOM	15001	CD1	LEU	G	764	53.813	70.768	56.908	1.00	13.87	6
ATOM	15002	CD2	LEU	G	764	54.618	69.952	59.034	1.00	13.87	6
ATOM	15003	C	LEU	G	764	55.545	73.557	57.196	1.00	33.08	6
ATOM	15004	O	LEU	G	764	55.859	74.123	58.239	1.00	32.01	8
ATOM	15005	N	SER	G	765	54.469	73.906	56.516	1.00	41.12	7
ATOM	15006	CA	SER	G	765	53.680	75.025	56.992	1.00	42.05	6
ATOM	15007	CB	SER	G	765	52.407	75.205	56.157	1.00	15.01	6
ATOM	15008	OG	SER	G	765	51.395	74.276	56.484	1.00	13.87	8
ATOM	15009	C	SER	G	765	53.305	74.919	58.455	1.00	43.52	6
ATOM	15010	O	SER	G	765	53.170	75.933	59.133	1.00	45.29	8
ATOM	15011	N	ALA	G	766	53.159	73.700	58.953	1.00	15.35	7
ATOM	15012	CA	ALA	G	766	52.753	73.506	60.342	1.00	17.16	6
ATOM	15013	CB	ALA	G	766	52.348	72.050	60.564	1.00	120.56	6
ATOM	15014	C	ALA	G	766	53.791	73.918	61.386	1.00	18.99	6
ATOM	15015	O	ALA	G	766	53.437	74.151	62.548	1.00	17.29	8
ATOM	15016	N	HIS	G	767	55.064	73.991	60.992	1.00	66.55	7
ATOM	15017	CA	HIS	G	767	56.117	74.376	61.930	1.00	68.12	6
ATOM	15018	CB	HIS	G	767	57.291	73.388	61.908	1.00	38.10	6
ATOM	15019	CG	HIS	G	767	56.904	71.953	61.729	1.00	40.34	6
ATOM	15020	CD2	HIS	G	767	57.309	71.033	60.820	1.00	39.96	6
ATOM	15021	ND1	HIS	G	767	56.044	71.295	62.581	1.00	41.67	7
ATOM	15022	CE1	HIS	G	767	55.936	70.033	62.204	1.00	41.91	6
ATOM	15023	NE2	HIS	G	767	56.695	69.849	61.139	1.00	41.62	7
ATOM	15024	C	HIS	G	767	56.694	75.755	61.606	1.00	69.05	6
ATOM	15025	O	HIS	G	767	56.382	76.765	62.254	1.00	68.74	8
ATOM	15026	N	ASN	G	768	57.550	75.779	60.590	1.00	37.53	7
ATOM	15027	CA	ASN	G	768	58.225	77.004	60.185	1.00	38.30	6
ATOM	15028	CB	ASN	G	768	59.317	76.685	59.161	1.00	98.05	6
ATOM	15029	CG	ASN	G	768	60.362	77.783	59.058	1.00	101.19	6
ATOM	15030	OD1	ASN	G	768	60.138	78.818	58.429	1.00	103.81	8
ATOM	15031	ND2	ASN	G	768	61.511	77.564	59.694	1.00	103.05	7
ATOM	15032	C	ASN	G	768	57.293	78.064	59.636	1.00	36.76	6
ATOM	15033	O	ASN	G	768	57.619	78.753	58.668	1.00	35.44	8
ATOM	15034	N	LEU	G	769	56.131	78.193	60.259	1.00	56.17	7
ATOM	15035	CA	LEU	G	769	55.176	79.196	59.836	1.00	57.04	6
ATOM	15036	CB	LEU	G	769	53.864	78.549	59.388	1.00	112.18	6
ATOM	15037	CG	LEU	G	769	53.270	79.078	58.072	1.00	113.89	6
ATOM	15038	CD1	LEU	G	769	52.035	78.269	57.700	1.00	113.61	6
ATOM	15039	CD2	LEU	G	769	52.928	80.562	58.206	1.00	114.19	6
ATOM	15040	C	LEU	G	769	54.955	80.047	61.061	1.00	56.62	6
ATOM	15041	O	LEU	G	769	55.168	81.256	61.044	1.00	57.60	8
ATOM	15042	N	LEU	G	770	54.555	79.392	62.137	1.00	73.72	7
ATOM	15043	CA	LEU	G	770	54.310	80.077	63.390	1.00	71.62	6
ATOM	15044	CB	LEU	G	770	54.007	79.047	64.481	1.00	29.35	6
ATOM	15045	CG	LEU	G	770	52.758	78.190	64.292	1.00	27.37	6
ATOM	15046	CD1	LEU	G	770	52.853	77.386	63.004	1.00	26.30	6
ATOM	15047	CD2	LEU	G	770	52.618	77.287	65.487	1.00	26.49	6
ATOM	15048	C	LEU	G	770	55.530	80.916	63.776	1.00	70.73	6
ATOM	15049	O	LEU	G	770	56.644	80.388	63.882	1.00	70.99	8
ATOM	15050	N	SER	G	771	55.316	82.215	63.981	1.00	27.71	7
ATOM	15051	CA	SER	G	771	56.400	83.122	64.353	1.00	25.01	6
ATOM	15052	CB	SER	G	771	57.049	82.650	65.650	1.00	13.87	6
ATOM	15053	OG	SER	G	771	56.082	82.467	66.658	1.00	13.87	8
ATOM	15054	C	SER	G	771	57.424	83.114	63.222	1.00	26.50	6
ATOM	15055	O	SER	G	771	58.329	82.288	63.213	1.00	26.59	8

ATOM	15056	N	PRO	G	772	57.292	84.042	62.258	1.00	27.42	7
ATOM	15057	CD	PRO	G	772	56.066	84.831	62.076	1.00	128.55	6
ATOM	15058	CA	PRO	G	772	58.143	84.214	61.079	1.00	27.59	6
ATOM	15059	CB	PRO	G	772	57.135	84.535	60.016	1.00	129.03	6
ATOM	15060	CG	PRO	G	772	56.353	85.558	60.769	1.00	129.81	6
ATOM	15061	C	PRO	G	772	59.165	85.330	61.146	1.00	27.08	6
ATOM	15062	O	PRO	G	772	58.833	86.451	61.521	1.00	24.70	8
ATOM	15063	N	ALA	G	773	60.375	85.008	60.695	1.00	56.69	7
ATOM	15064	CA	ALA	G	773	61.524	85.915	60.652	1.00	58.46	6
ATOM	15065	CB	ALA	G	773	62.233	85.734	59.347	1.00	13.87	6
ATOM	15066	C	ALA	G	773	61.281	87.412	60.903	1.00	60.27	6
ATOM	15067	O	ALA	G	773	60.992	88.175	59.968	1.00	61.67	8
ATOM	15068	N	SER	G	774	61.438	87.792	62.182	1.00	33.09	7
ATOM	15069	CA	SER	G	774	61.279	89.150	62.740	1.00	29.64	6
ATOM	15070	CB	SER	G	774	61.263	90.200	61.625	1.00	53.29	6
ATOM	15071	OG	SER	G	774	62.431	90.074	60.828	1.00	52.85	8
ATOM	15072	C	SER	G	774	60.069	89.325	63.690	1.00	27.63	6
ATOM	15073	O	SER	G	774	59.120	90.071	63.414	1.00	24.23	8
ATOM	15074	N	GLY	G	775	60.128	88.580	64.796	1.00	62.93	7
ATOM	15075	CA	GLY	G	775	59.122	88.664	65.841	1.00	63.64	6
ATOM	15076	C	GLY	G	775	57.859	87.819	65.969	1.00	63.06	6
ATOM	15077	O	GLY	G	775	57.899	86.630	66.322	1.00	62.24	8
ATOM	15078	N	GLU	G	776	56.737	88.497	65.708	1.00	27.39	7
ATOM	15079	CA	GLU	G	776	55.366	87.991	65.807	1.00	27.23	6
ATOM	15080	CB	GLU	G	776	54.381	89.125	65.494	1.00	60.04	6
ATOM	15081	CG	GLU	G	776	55.003	90.468	65.196	1.00	63.57	6
ATOM	15082	CD	GLU	G	776	54.732	91.461	66.299	1.00	66.43	6
ATOM	15083	OE1	GLU	G	776	53.545	91.606	66.652	1.00	67.74	8
ATOM	15084	OE2	GLU	G	776	55.690	92.091	66.810	1.00	69.61	8
ATOM	15085	C	GLU	G	776	54.921	86.791	64.997	1.00	24.15	6
ATOM	15086	O	GLU	G	776	55.639	86.298	64.147	1.00	23.57	8
ATOM	15087	N	PRO	G	777	53.701	86.303	65.273	1.00	26.96	7
ATOM	15088	CD	PRO	G	777	52.823	86.626	66.413	1.00	13.87	6
ATOM	15089	CA	PRO	G	777	53.171	85.161	64.541	1.00	26.04	6
ATOM	15090	CB	PRO	G	777	51.975	84.754	65.390	1.00	13.87	6
ATOM	15091	CG	PRO	G	777	51.533	86.037	65.983	1.00	13.87	6
ATOM	15092	C	PRO	G	777	52.763	85.608	63.142	1.00	25.66	6
ATOM	15093	O	PRO	G	777	52.037	86.579	62.991	1.00	25.44	8
ATOM	15094	N	LEU	G	778	53.240	84.915	62.119	1.00	21.61	7
ATOM	15095	CA	LEU	G	778	52.882	85.265	60.757	1.00	22.03	6
ATOM	15096	CB	LEU	G	778	53.896	84.714	59.766	1.00	13.87	6
ATOM	15097	CG	LEU	G	778	53.949	85.275	58.354	1.00	13.87	6
ATOM	15098	CD1	LEU	G	778	52.606	85.907	58.074	1.00	13.87	6
ATOM	15099	CD2	LEU	G	778	55.059	86.298	58.184	1.00	13.87	6
ATOM	15100	C	LEU	G	778	51.555	84.585	60.517	1.00	24.64	6
ATOM	15101	O	LEU	G	778	50.676	85.144	59.860	1.00	25.71	8
ATOM	15102	N	ALA	G	779	51.435	83.368	61.058	1.00	36.17	7
ATOM	15103	CA	ALA	G	779	50.227	82.541	60.952	1.00	36.16	6
ATOM	15104	CB	ALA	G	779	50.592	81.050	61.005	1.00	14.38	6
ATOM	15105	C	ALA	G	779	49.277	82.875	62.088	1.00	35.75	6
ATOM	15106	O	ALA	G	779	49.321	82.261	63.149	1.00	35.75	8
ATOM	15107	N	LYS	G	780	48.414	83.849	61.862	1.00	23.74	7
ATOM	15108	CA	LYS	G	780	47.492	84.242	62.900	1.00	24.26	6
ATOM	15109	CB	LYS	G	780	47.791	85.667	63.342	1.00	29.93	6
ATOM	15110	CG	LYS	G	780	47.427	86.705	62.292	1.00	31.31	6
ATOM	15111	CD	LYS	G	780	48.046	88.057	62.595	1.00	32.06	6

ATOM	15112	CE	LYS	G	780	49.556	88.013	62.446	1.00	32.04	6
ATOM	15113	NZ	LYS	G	780	49.938	87.535	61.086	1.00	30.99	7
ATOM	15114	C	LYS	G	780	46.123	84.194	62.280	1.00	23.69	6
ATOM	15115	O	LYS	G	780	46.017	84.166	61.048	1.00	24.61	8
ATOM	15116	N	PRO	G	781	45.055	84.161	63.114	1.00	20.33	7
ATOM	15117	CD	PRO	G	781	45.042	83.954	64.573	1.00	13.87	6
ATOM	15118	CA	PRO	G	781	43.693	84.124	62.573	1.00	19.24	6
ATOM	15119	CB	PRO	G	781	42.820	84.011	63.823	1.00	13.87	6
ATOM	15120	CG	PRO	G	781	43.693	84.461	64.942	1.00	13.87	6
ATOM	15121	C	PRO	G	781	43.490	85.411	61.812	1.00	17.87	6
ATOM	15122	O	PRO	G	781	44.144	86.404	62.122	1.00	17.15	8
ATOM	15123	N	SER	G	782	42.613	85.412	60.820	1.00	15.44	7
ATOM	15124	CA	SER	G	782	42.439	86.633	60.064	1.00	17.28	6
ATOM	15125	CB	SER	G	782	43.510	86.724	58.995	1.00	60.50	6
ATOM	15126	OG	SER	G	782	43.341	85.682	58.050	1.00	65.71	8
ATOM	15127	C	SER	G	782	41.088	86.817	59.406	1.00	18.24	6
ATOM	15128	O	SER	G	782	40.214	85.970	59.525	1.00	18.07	8
ATOM	15129	N	ALA	G	783	40.952	87.948	58.711	1.00	45.23	7
ATOM	15130	CA	ALA	G	783	39.751	88.379	57.990	1.00	46.50	6
ATOM	15131	CB	ALA	G	783	40.169	88.948	56.626	1.00	37.16	6
ATOM	15132	C	ALA	G	783	38.647	87.345	57.795	1.00	46.84	6
ATOM	15133	O	ALA	G	783	38.633	86.670	56.772	1.00	47.76	8
ATOM	15134	N	ASP	G	784	37.722	87.248	58.753	1.00	36.67	7
ATOM	15135	CA	ASP	G	784	36.586	86.305	58.719	1.00	37.55	6
ATOM	15136	CB	ASP	G	784	36.595	85.430	57.456	1.00	49.98	6
ATOM	15137	CG	ASP	G	784	35.200	85.233	56.861	1.00	51.36	6
ATOM	15138	OD1	ASP	G	784	34.285	84.851	57.612	1.00	52.12	8
ATOM	15139	OD2	ASP	G	784	35.013	85.447	55.641	1.00	52.33	8
ATOM	15140	C	ASP	G	784	36.615	85.408	59.947	1.00	37.15	6
ATOM	15141	O	ASP	G	784	35.579	85.005	60.470	1.00	38.29	8
ATOM	15142	N	ILE	G	785	37.815	85.076	60.393	1.00	41.46	7
ATOM	15143	CA	ILE	G	785	37.964	84.264	61.577	1.00	39.70	6
ATOM	15144	CB	ILE	G	785	39.382	83.693	61.696	1.00	15.05	6
ATOM	15145	CG2	ILE	G	785	39.507	82.869	62.970	1.00	14.47	6
ATOM	15146	CG1	ILE	G	785	39.700	82.871	60.452	1.00	15.58	6
ATOM	15147	CD1	ILE	G	785	40.778	81.822	60.660	1.00	17.48	6
ATOM	15148	C	ILE	G	785	37.748	85.247	62.706	1.00	39.86	6
ATOM	15149	O	ILE	G	785	36.954	85.030	63.611	1.00	40.10	8
ATOM	15150	N	ILE	G	786	38.454	86.358	62.632	1.00	24.73	7
ATOM	15151	CA	ILE	G	786	38.349	87.359	63.661	1.00	23.79	6
ATOM	15152	CB	ILE	G	786	39.362	88.467	63.418	1.00	15.20	6
ATOM	15153	CG2	ILE	G	786	39.425	89.404	64.594	1.00	16.33	6
ATOM	15154	CG1	ILE	G	786	40.737	87.876	63.226	1.00	14.70	6
ATOM	15155	CD1	ILE	G	786	41.661	88.878	62.603	1.00	18.15	6
ATOM	15156	C	ILE	G	786	36.949	87.954	63.663	1.00	23.11	6
ATOM	15157	O	ILE	G	786	36.513	88.534	64.656	1.00	21.58	8
ATOM	15158	N	LEU	G	787	36.231	87.811	62.556	1.00	38.69	7
ATOM	15159	CA	LEU	G	787	34.886	88.378	62.478	1.00	38.51	6
ATOM	15160	CB	LEU	G	787	34.371	88.324	61.045	1.00	19.03	6
ATOM	15161	CG	LEU	G	787	33.002	88.954	60.859	1.00	18.73	6
ATOM	15162	CD1	LEU	G	787	33.040	90.379	61.357	1.00	18.88	6
ATOM	15163	CD2	LEU	G	787	32.622	88.911	59.391	1.00	18.73	6
ATOM	15164	C	LEU	G	787	33.918	87.648	63.386	1.00	38.98	6
ATOM	15165	O	LEU	G	787	33.109	88.263	64.086	1.00	38.48	8
ATOM	15166	N	GLY	G	788	34.018	86.325	63.356	1.00	37.13	7
ATOM	15167	CA	GLY	G	788	33.163	85.488	64.164	1.00	37.11	6

ATOM	15168	C	GLY	G	788	33.623	85.461	65.599	1.00	37.38	6
ATOM	15169	O	GLY	G	788	32.801	85.588	66.495	1.00	38.29	8
ATOM	15170	N	LEU	G	789	34.926	85.311	65.827	1.00	19.19	7
ATOM	15171	CA	LEU	G	789	35.446	85.256	67.184	1.00	19.28	6
ATOM	15172	CB	LEU	G	789	36.948	85.004	67.164	1.00	13.87	6
ATOM	15173	CG	LEU	G	789	37.247	83.521	67.008	1.00	13.87	6
ATOM	15174	CD1	LEU	G	789	38.616	83.204	67.546	1.00	13.87	6
ATOM	15175	CD2	LEU	G	789	36.217	82.736	67.781	1.00	13.87	6
ATOM	15176	C	LEU	G	789	35.135	86.489	68.016	1.00	20.25	6
ATOM	15177	O	LEU	G	789	35.162	86.459	69.242	1.00	19.66	8
ATOM	15178	N	TYR	G	790	34.829	87.584	67.347	1.00	32.63	7
ATOM	15179	CA	TYR	G	790	34.511	88.803	68.051	1.00	32.68	6
ATOM	15180	CB	TYR	G	790	34.905	89.994	67.155	1.00	20.56	6
ATOM	15181	CG	TYR	G	790	34.730	91.382	67.736	1.00	19.81	6
ATOM	15182	CD1	TYR	G	790	33.483	92.005	67.727	1.00	22.03	6
ATOM	15183	CE1	TYR	G	790	33.307	93.301	68.204	1.00	22.46	6
ATOM	15184	CD2	TYR	G	790	35.801	92.087	68.243	1.00	17.80	6
ATOM	15185	CE2	TYR	G	790	35.635	93.383	68.722	1.00	19.02	6
ATOM	15186	CZ	TYR	G	790	34.383	93.993	68.700	1.00	21.73	6
ATOM	15187	OH	TYR	G	790	34.192	95.295	69.150	1.00	20.21	8
ATOM	15188	C	TYR	G	790	33.010	88.744	68.398	1.00	32.40	6
ATOM	15189	O	TYR	G	790	32.654	88.781	69.570	1.00	32.10	8
ATOM	15190	N	TYR	G	791	32.139	88.595	67.402	1.00	47.89	7
ATOM	15191	CA	TYR	G	791	30.695	88.537	67.649	1.00	50.05	6
ATOM	15192	CB	TYR	G	791	29.949	88.107	66.396	1.00	23.78	6
ATOM	15193	CG	TYR	G	791	29.028	89.154	65.827	1.00	21.98	6
ATOM	15194	CD1	TYR	G	791	29.541	90.288	65.219	1.00	21.56	6
ATOM	15195	CE1	TYR	G	791	28.705	91.235	64.624	1.00	21.65	6
ATOM	15196	CD2	TYR	G	791	27.647	88.983	65.842	1.00	19.64	6
ATOM	15197	CE2	TYR	G	791	26.790	89.928	65.251	1.00	21.32	6
ATOM	15198	CZ	TYR	G	791	27.331	91.058	64.635	1.00	21.76	6
ATOM	15199	OH	TYR	G	791	26.539	92.001	63.995	1.00	18.83	8
ATOM	15200	C	TYR	G	791	30.257	87.609	68.780	1.00	52.37	6
ATOM	15201	O	TYR	G	791	29.189	87.799	69.365	1.00	53.82	8
ATOM	15202	N	ILE	G	792	31.053	86.589	69.071	1.00	30.73	7
ATOM	15203	CA	ILE	G	792	30.719	85.650	70.138	1.00	32.10	6
ATOM	15204	CB	ILE	G	792	31.011	84.186	69.690	1.00	100.62	6
ATOM	15205	CG2	ILE	G	792	30.773	83.222	70.825	1.00	102.54	6
ATOM	15206	CG1	ILE	G	792	30.070	83.778	68.556	1.00	103.50	6
ATOM	15207	CD1	ILE	G	792	30.211	84.589	67.292	1.00	106.63	6
ATOM	15208	C	ILE	G	792	31.600	86.032	71.319	1.00	31.58	6
ATOM	15209	O	ILE	G	792	32.148	85.177	72.011	1.00	33.20	8
ATOM	15210	N	THR	G	793	31.732	87.336	71.543	1.00	27.56	7
ATOM	15211	CA	THR	G	793	32.596	87.848	72.601	1.00	26.55	6
ATOM	15212	CB	THR	G	793	34.116	87.721	72.218	1.00	21.55	6
ATOM	15213	OG1	THR	G	793	34.337	86.565	71.415	1.00	19.90	8
ATOM	15214	CG2	THR	G	793	34.979	87.608	73.438	1.00	20.39	6
ATOM	15215	C	THR	G	793	32.359	89.343	72.814	1.00	27.96	6
ATOM	15216	O	THR	G	793	33.289	90.048	73.193	1.00	28.18	8
ATOM	15217	N	GLN	G	794	31.161	89.864	72.588	1.00	17.12	7
ATOM	15218	CA	GLN	G	794	31.033	91.296	72.774	1.00	19.48	6
ATOM	15219	CB	GLN	G	794	30.623	91.964	71.468	1.00	39.11	6
ATOM	15220	CG	GLN	G	794	31.618	93.025	71.016	1.00	41.22	6
ATOM	15221	CD	GLN	G	794	32.035	93.996	72.140	1.00	42.55	6
ATOM	15222	OE1	GLN	G	794	32.500	93.569	73.203	1.00	43.82	8
ATOM	15223	NE2	GLN	G	794	31.883	95.307	71.898	1.00	42.28	7

ATOM	15224	C	GLN	G	794	30.159	91.828	73.892	1.00	21.63	6
ATOM	15225	O	GLN	G	794	30.366	92.939	74.354	1.00	20.54	8
ATOM	15226	N	VAL	G	795	29.205	91.047	74.363	1.00	61.89	7
ATOM	15227	CA	VAL	G	795	28.301	91.531	75.401	1.00	65.70	6
ATOM	15228	CB	VAL	G	795	29.035	92.249	76.559	1.00	13.87	6
ATOM	15229	CG1	VAL	G	795	28.044	92.598	77.646	1.00	13.87	6
ATOM	15230	CG2	VAL	G	795	30.146	91.401	77.103	1.00	13.87	6
ATOM	15231	C	VAL	G	795	27.449	92.556	74.681	1.00	70.25	6
ATOM	15232	O	VAL	G	795	27.701	92.876	73.520	1.00	72.46	8
ATOM	15233	N	ARG	G	796	26.440	93.077	75.355	1.00	35.14	7
ATOM	15234	CA	ARG	G	796	25.603	94.066	74.710	1.00	39.99	6
ATOM	15235	CB	ARG	G	796	24.281	93.426	74.283	1.00	38.80	6
ATOM	15236	CG	ARG	G	796	24.416	91.981	73.866	1.00	40.77	6
ATOM	15237	CD	ARG	G	796	23.875	91.744	72.472	1.00	43.43	6
ATOM	15238	NE	ARG	G	796	22.545	91.143	72.458	1.00	48.09	7
ATOM	15239	CZ	ARG	G	796	21.994	90.595	71.376	1.00	50.25	6
ATOM	15240	NH1	ARG	G	796	22.660	90.572	70.226	1.00	49.68	7
ATOM	15241	NH2	ARG	G	796	20.778	90.070	71.438	1.00	53.16	7
ATOM	15242	C	ARG	G	796	25.340	95.249	75.640	1.00	42.90	6
ATOM	15243	O	ARG	G	796	25.840	95.308	76.772	1.00	43.38	8
ATOM	15244	N	ALA	G	797	24.553	96.197	75.151	1.00	75.68	7
ATOM	15245	CA	ALA	G	797	24.211	97.371	75.929	1.00	79.83	6
ATOM	15246	CB	ALA	G	797	25.294	98.429	75.770	1.00	92.75	6
ATOM	15247	C	ALA	G	797	22.863	97.897	75.452	1.00	82.83	6
ATOM	15248	O	ALA	G	797	22.703	99.088	75.202	1.00	83.48	8
ATOM	15249	N	GLU	G	798	21.899	96.993	75.316	1.00	160.01	7
ATOM	15250	CA	GLU	G	798	20.560	97.360	74.872	1.00	163.85	6
ATOM	15251	CB	GLU	G	798	19.584	96.212	75.158	1.00	76.15	6
ATOM	15252	CG	GLU	G	798	19.689	95.632	76.568	1.00	78.05	6
ATOM	15253	CD	GLU	G	798	20.062	94.158	76.570	1.00	78.36	6
ATOM	15254	OE1	GLU	G	798	19.388	93.384	75.855	1.00	78.95	8
ATOM	15255	OE2	GLU	G	798	21.020	93.776	77.287	1.00	78.32	8
ATOM	15256	C	GLU	G	798	20.090	98.644	75.555	1.00	165.80	6
ATOM	15257	O	GLU	G	798	19.324	99.422	74.978	1.00	167.14	8
ATOM	15258	N	ALA	G	799	20.563	98.855	76.783	1.00	97.67	7
ATOM	15259	CA	ALA	G	799	20.231	100.038	77.574	1.00	98.55	6
ATOM	15260	CB	ALA	G	799	21.049	101.209	77.093	1.00	13.87	6
ATOM	15261	C	ALA	G	799	18.752	100.419	77.566	1.00	99.18	6
ATOM	15262	O	ALA	G	799	18.309	101.153	76.686	1.00	100.21	8
ATOM	15263	N	ALA	G	800	17.995	99.926	78.544	1.00	139.95	7
ATOM	15264	CA	ALA	G	800	16.572	100.246	78.641	1.00	139.56	6
ATOM	15265	CB	ALA	G	800	15.706	99.010	78.351	1.00	29.89	6
ATOM	15266	C	ALA	G	800	16.289	100.761	80.040	1.00	139.22	6
ATOM	15267	O	ALA	G	800	15.296	100.395	80.662	1.00	140.45	8
ATOM	15268	N	GLY	G	801	17.181	101.607	80.536	1.00	64.62	7
ATOM	15269	CA	GLY	G	801	16.999	102.165	81.860	1.00	63.95	6
ATOM	15270	C	GLY	G	801	18.034	101.688	82.853	1.00	63.60	6
ATOM	15271	O	GLY	G	801	18.453	100.534	82.803	1.00	64.35	8
ATOM	15272	N	ALA	G	802	18.452	102.571	83.756	1.00	61.70	7
ATOM	15273	CA	ALA	G	802	19.437	102.198	84.761	1.00	61.19	6
ATOM	15274	CB	ALA	G	802	20.769	102.859	84.435	1.00	19.01	6
ATOM	15275	C	ALA	G	802	18.977	102.539	86.195	1.00	61.23	6
ATOM	15276	O	ALA	G	802	19.633	103.292	86.930	1.00	61.12	8
ATOM	15277	N	GLY	G	803	17.847	101.942	86.582	1.00	34.86	7
ATOM	15278	CA	GLY	G	803	17.264	102.158	87.897	1.00	34.00	6
ATOM	15279	C	GLY	G	803	17.956	101.593	89.135	1.00	33.82	6

ATOM	15280	O	GLY	G	803	19.181	101.457	89.189	1.00	32.87	8
ATOM	15281	N	ALA	G	804	17.143	101.270	90.142	1.00	86.31	7
ATOM	15282	CA	ALA	G	804	17.621	100.749	91.421	1.00	87.01	6
ATOM	15283	CB	ALA	G	804	17.369	101.777	92.489	1.00	16.35	6
ATOM	15284	C	ALA	G	804	16.988	99.416	91.828	1.00	88.19	6
ATOM	15285	O	ALA	G	804	16.063	98.930	91.177	1.00	88.92	8
ATOM	15286	N	ALA	G	805	17.478	98.833	92.917	1.00	105.80	7
ATOM	15287	CA	ALA	G	805	16.956	97.549	93.378	1.00	107.76	6
ATOM	15288	CB	ALA	G	805	17.444	96.432	92.450	1.00	110.30	6
ATOM	15289	C	ALA	G	805	17.356	97.237	94.818	1.00	108.92	6
ATOM	15290	O	ALA	G	805	16.500	97.105	95.701	1.00	109.43	8
ATOM	15291	N	ALA	G	806	18.664	97.095	95.024	1.00	128.12	7
ATOM	15292	CA	ALA	G	806	19.260	96.808	96.325	1.00	128.33	6
ATOM	15293	CB	ALA	G	806	18.490	97.527	97.435	1.00	147.98	6
ATOM	15294	C	ALA	G	806	19.401	95.328	96.666	1.00	128.39	6
ATOM	15295	O	ALA	G	806	20.503	94.783	96.595	1.00	128.67	8
ATOM	15296	N	ALA	G	807	18.289	94.683	97.023	1.00	99.16	7
ATOM	15297	CA	ALA	G	807	18.302	93.270	97.421	1.00	100.11	6
ATOM	15298	CB	ALA	G	807	17.584	93.115	98.767	1.00	156.30	6
ATOM	15299	C	ALA	G	807	17.735	92.259	96.420	1.00	100.11	6
ATOM	15300	O	ALA	G	807	17.049	91.310	96.814	1.00	99.81	8
ATOM	15301	N	THR	G	808	18.028	92.453	95.137	1.00	97.48	7
ATOM	15302	CA	THR	G	808	17.547	91.546	94.099	1.00	96.79	6
ATOM	15303	CB	THR	G	808	18.106	90.129	94.314	1.00	67.99	6
ATOM	15304	OG1	THR	G	808	19.514	90.201	94.557	1.00	68.21	8
ATOM	15305	CG2	THR	G	808	17.861	89.268	93.094	1.00	68.39	6
ATOM	15306	C	THR	G	808	16.028	91.448	94.130	1.00	97.04	6
ATOM	15307	O	THR	G	808	15.467	90.397	93.819	1.00	97.24	8
ATOM	15308	N	PRO	G	809	15.338	92.540	94.500	1.00	109.80	7
ATOM	15309	CD	PRO	G	809	15.798	93.915	94.773	1.00	123.02	6
ATOM	15310	CA	PRO	G	809	13.876	92.474	94.548	1.00	110.35	6
ATOM	15311	CB	PRO	G	809	13.473	93.944	94.638	1.00	122.89	6
ATOM	15312	CG	PRO	G	809	14.589	94.532	95.448	1.00	122.67	6
ATOM	15313	C	PRO	G	809	13.243	91.761	93.359	1.00	110.55	6
ATOM	15314	O	PRO	G	809	13.919	91.423	92.384	1.00	110.36	8
ATOM	15315	N	GLU	G	810	11.937	91.532	93.459	1.00	61.22	7
ATOM	15316	CA	GLU	G	810	11.194	90.872	92.405	1.00	61.61	6
ATOM	15317	CB	GLU	G	810	9.689	90.968	92.665	1.00	154.34	6
ATOM	15318	CG	GLU	G	810	8.836	90.265	91.616	1.00	156.04	6
ATOM	15319	CD	GLU	G	810	7.352	90.397	91.889	1.00	157.30	6
ATOM	15320	OE1	GLU	G	810	6.925	90.022	93.002	1.00	157.98	8
ATOM	15321	OE2	GLU	G	810	6.616	90.869	90.995	1.00	158.08	8
ATOM	15322	C	GLU	G	810	11.539	91.579	91.113	1.00	61.85	6
ATOM	15323	O	GLU	G	810	11.325	91.042	90.031	1.00	61.43	8
ATOM	15324	N	ALA	G	811	12.077	92.790	91.246	1.00	133.90	7
ATOM	15325	CA	ALA	G	811	12.484	93.600	90.106	1.00	134.51	6
ATOM	15326	CB	ALA	G	811	13.454	94.685	90.555	1.00	98.09	6
ATOM	15327	C	ALA	G	811	13.125	92.728	89.032	1.00	134.99	6
ATOM	15328	O	ALA	G	811	13.016	93.026	87.845	1.00	135.02	8
ATOM	15329	N	ALA	G	812	13.796	91.656	89.448	1.00	141.80	7
ATOM	15330	CA	ALA	G	812	14.418	90.738	88.501	1.00	141.70	6
ATOM	15331	CB	ALA	G	812	14.892	89.482	89.219	1.00	13.87	6
ATOM	15332	C	ALA	G	812	13.348	90.382	87.475	1.00	142.44	6
ATOM	15333	O	ALA	G	812	13.531	90.572	86.274	1.00	143.66	8
ATOM	15334	N	ALA	G	813	12.223	89.877	87.969	1.00	135.92	7
ATOM	15335	CA	ALA	G	813	11.101	89.506	87.118	1.00	136.06	6



ATOM	15336	CB	ALA	G	813	10.391	88.280	87.687	1.00184.90	6
ATOM	15337	C	ALA	G	813	10.128	90.678	87.018	1.00135.37	6
ATOM	15338	O	ALA	G	813	9.376	90.794	86.050	1.00135.25	8
ATOM	15339	N	ALA	G	814	10.134	91.537	88.033	1.00 90.29	7
ATOM	15340	CA	ALA	G	814	9.261	92.695	88.021	1.00 89.49	6
ATOM	15341	CB	ALA	G	814	9.516	93.574	89.229	1.00117.54	6
ATOM	15342	C	ALA	G	814	9.666	93.405	86.755	1.00 88.89	6
ATOM	15343	O	ALA	G	814	8.824	93.874	85.994	1.00 89.06	8
ATOM	15344	N	ALA	G	815	10.972	93.463	86.524	1.00 78.06	7
ATOM	15345	CA	ALA	G	815	11.489	94.095	85.321	1.00 77.59	6
ATOM	15346	CB	ALA	G	815	13.009	94.105	85.330	1.00121.63	6
ATOM	15347	C	ALA	G	815	10.977	93.266	84.155	1.00 77.33	6
ATOM	15348	O	ALA	G	815	10.612	93.806	83.110	1.00 77.37	8
ATOM	15349	N	ALA	G	816	10.956	91.948	84.347	1.00111.03	7
ATOM	15350	CA	ALA	G	816	10.470	91.033	83.321	1.00111.59	6
ATOM	15351	CB	ALA	G	816	10.541	89.591	83.813	1.00107.03	6
ATOM	15352	C	ALA	G	816	9.030	91.416	83.024	1.00111.47	6
ATOM	15353	O	ALA	G	816	8.094	90.840	83.584	1.00111.27	8
ATOM	15354	N	ALA	G	817	8.871	92.401	82.145	1.00157.33	7
ATOM	15355	CA	ALA	G	817	7.564	92.912	81.757	1.00157.32	6
ATOM	15356	CB	ALA	G	817	7.049	93.865	82.833	1.00 82.47	6
ATOM	15357	C	ALA	G	817	7.695	93.645	80.427	1.00157.25	6
ATOM	15358	O	ALA	G	817	7.117	93.244	79.417	1.00157.22	8
ATOM	15359	N	ARG	G	818	8.467	94.727	80.451	1.00 86.52	7
ATOM	15360	CA	ARG	G	818	8.724	95.564	79.283	1.00 86.74	6
ATOM	15361	CB	ARG	G	818	7.422	96.180	78.768	1.00118.96	6
ATOM	15362	CG	ARG	G	818	6.868	97.250	79.685	1.00120.10	6
ATOM	15363	CD	ARG	G	818	5.406	97.536	79.427	1.00121.14	6
ATOM	15364	NE	ARG	G	818	4.857	98.381	80.481	1.00122.06	7
ATOM	15365	CZ	ARG	G	818	3.562	98.497	80.739	1.00122.04	6
ATOM	15366	NH1	ARG	G	818	2.683	97.820	80.016	1.00122.91	7
ATOM	15367	NH2	ARG	G	818	3.149	99.279	81.723	1.00121.62	7
ATOM	15368	C	ARG	G	818	9.670	96.668	79.758	1.00 86.63	6
ATOM	15369	O	ARG	G	818	9.510	97.204	80.858	1.00 86.80	8
ATOM	15370	N	GLY	G	819	10.655	97.014	78.938	1.00148.56	7
ATOM	15371	CA	GLY	G	819	11.603	98.032	79.349	1.00147.45	6
ATOM	15372	C	GLY	G	819	12.590	97.394	80.310	1.00146.54	6
ATOM	15373	O	GLY	G	819	12.708	96.168	80.343	1.00146.84	8
ATOM	15374	N	ALA	G	820	13.288	98.206	81.098	1.00 81.04	7
ATOM	15375	CA	ALA	G	820	14.273	97.690	82.051	1.00 79.47	6
ATOM	15376	CB	ALA	G	820	13.591	97.257	83.321	1.00 17.11	6
ATOM	15377	C	ALA	G	820	15.042	96.515	81.466	1.00 78.95	6
ATOM	15378	O	ALA	G	820	14.952	95.398	81.979	1.00 78.58	8
ATOM	15379	N	ALA	G	821	15.788	96.768	80.392	1.00150.37	7
ATOM	15380	CA	ALA	G	821	16.566	95.723	79.735	1.00149.29	6
ATOM	15381	CB	ALA	G	821	16.970	96.154	78.341	1.00 55.90	6
ATOM	15382	C	ALA	G	821	17.804	95.375	80.530	1.00148.41	6
ATOM	15383	O	ALA	G	821	18.388	96.224	81.202	1.00148.78	8
ATOM	15384	N	ALA	G	822	18.207	94.116	80.427	1.00 68.65	7
ATOM	15385	CA	ALA	G	822	19.374	93.624	81.136	1.00 67.90	6
ATOM	15386	CB	ALA	G	822	19.549	92.125	80.858	1.00 40.68	6
ATOM	15387	C	ALA	G	822	20.661	94.403	80.793	1.00 67.30	6
ATOM	15388	O	ALA	G	822	21.462	93.997	79.929	1.00 66.87	8
ATOM	15389	N	ALA	G	823	20.849	95.523	81.490	1.00 61.01	7
ATOM	15390	CA	ALA	G	823	22.018	96.360	81.291	1.00 60.21	6
ATOM	15391	CB	ALA	G	823	22.116	96.768	79.831	1.00 39.99	6

ATOM	15392	C	ALA	G	823	21.994	97.600	82.178	1.00	60.11	6
ATOM	15393	O	ALA	G	823	21.244	98.537	81.911	1.00	60.12	8
ATOM	15394	N	ALA	G	824	22.817	97.578	83.229	1.00	84.93	7
ATOM	15395	CA	ALA	G	824	22.979	98.674	84.190	1.00	84.56	6
ATOM	15396	CB	ALA	G	824	22.618	100.002	83.537	1.00	18.43	6
ATOM	15397	C	ALA	G	824	22.254	98.533	85.540	1.00	84.27	6
ATOM	15398	O	ALA	G	824	22.837	98.021	86.493	1.00	83.62	8
ATOM	15399	N	ALA	G	825	21.007	99.004	85.619	1.00	81.05	7
ATOM	15400	CA	ALA	G	825	20.191	98.957	86.844	1.00	81.12	6
ATOM	15401	CB	ALA	G	825	18.902	98.205	86.575	1.00	39.65	6
ATOM	15402	C	ALA	G	825	20.899	98.351	88.054	1.00	81.39	6
ATOM	15403	O	ALA	G	825	21.201	97.161	88.064	1.00	82.09	8
ATOM	15404	N	ALA	G	826	21.131	99.174	89.078	1.00	104.37	7
ATOM	15405	CA	ALA	G	826	21.832	98.766	90.306	1.00	104.98	6
ATOM	15406	CB	ALA	G	826	22.309	100.029	91.069	1.00	32.21	6
ATOM	15407	C	ALA	G	826	21.081	97.834	91.275	1.00	105.32	6
ATOM	15408	O	ALA	G	826	19.953	97.413	91.016	1.00	105.35	8
ATOM	15409	N	ALA	G	827	21.745	97.514	92.387	1.00	126.68	7
ATOM	15410	CA	ALA	G	827	21.203	96.661	93.450	1.00	127.15	6
ATOM	15411	CB	ALA	G	827	20.952	95.238	92.936	1.00	28.33	6
ATOM	15412	C	ALA	G	827	22.205	96.635	94.605	1.00	127.62	6
ATOM	15413	O	ALA	G	827	21.866	96.940	95.748	1.00	127.49	8
ATOM	15414	N	VAL	G	828	23.444	96.281	94.280	1.00	96.70	7
ATOM	15415	CA	VAL	G	828	24.553	96.198	95.238	1.00	96.39	6
ATOM	15416	CB	VAL	G	828	24.369	95.006	96.237	1.00	123.09	6
ATOM	15417	CG1	VAL	G	828	25.706	94.627	96.861	1.00	122.85	6
ATOM	15418	CG2	VAL	G	828	23.385	95.386	97.343	1.00	122.31	6
ATOM	15419	C	VAL	G	828	25.828	95.976	94.417	1.00	95.34	6
ATOM	15420	O	VAL	G	828	26.952	96.125	94.917	1.00	94.78	8
ATOM	15421	N	ALA	G	829	25.617	95.623	93.147	1.00	146.54	7
ATOM	15422	CA	ALA	G	829	26.684	95.355	92.179	1.00	145.16	6
ATOM	15423	CB	ALA	G	829	27.205	93.921	92.351	1.00	155.29	6
ATOM	15424	C	ALA	G	829	26.172	95.560	90.747	1.00	143.43	6
ATOM	15425	O	ALA	G	829	26.959	95.637	89.805	1.00	143.34	8
ATOM	15426	N	ALA	G	830	24.849	95.630	90.603	1.00	63.04	7
ATOM	15427	CA	ALA	G	830	24.182	95.836	89.314	1.00	60.98	6
ATOM	15428	CB	ALA	G	830	24.969	96.865	88.478	1.00	87.55	6
ATOM	15429	C	ALA	G	830	23.910	94.573	88.479	1.00	59.04	6
ATOM	15430	O	ALA	G	830	24.208	93.451	88.905	1.00	57.54	8
ATOM	15431	N	GLY	G	831	23.314	94.789	87.300	1.		

ATOM	15448	CB	ALA	G	833	22.145	88.879	83.418	1.00	44.74	6
ATOM	15449	C	ALA	G	833	21.308	88.453	85.717	1.00	40.98	6
ATOM	15450	O	ALA	G	833	22.473	88.189	86.047	1.00	40.76	8
ATOM	15451	N	THR	G	834	20.238	88.313	86.507	1.00	65.98	7
ATOM	15452	CA	THR	G	834	20.220	87.681	87.833	1.00	64.42	6
ATOM	15453	CB	THR	G	834	19.588	88.563	88.955	1.00	45.26	6
ATOM	15454	OG1	THR	G	834	19.784	89.957	88.690	1.00	44.58	8
ATOM	15455	CG2	THR	G	834	20.233	88.244	90.275	1.00	45.99	6
ATOM	15456	C	THR	G	834	19.193	86.610	87.488	1.00	63.85	6
ATOM	15457	O	THR	G	834	19.089	85.564	88.138	1.00	63.49	8
ATOM	15458	N	SER	G	835	18.425	86.936	86.443	1.00	56.29	7
ATOM	15459	CA	SER	G	835	17.391	86.082	85.870	1.00	55.86	6
ATOM	15460	CB	SER	G	835	16.744	86.803	84.666	1.00	38.75	6
ATOM	15461	OG	SER	G	835	15.703	86.062	84.030	1.00	37.23	8
ATOM	15462	C	SER	G	835	18.174	84.848	85.430	1.00	55.42	6
ATOM	15463	O	SER	G	835	18.355	83.918	86.212	1.00	55.90	8
ATOM	15464	N	VAL	G	836	18.660	84.838	84.195	1.00	57.23	7
ATOM	15465	CA	VAL	G	836	19.446	83.702	83.749	1.00	56.28	6
ATOM	15466	CB	VAL	G	836	19.782	83.756	82.206	1.00	16.17	6
ATOM	15467	CG1	VAL	G	836	20.072	82.329	81.704	1.00	15.03	6
ATOM	15468	CG2	VAL	G	836	18.655	84.402	81.401	1.00	13.87	6
ATOM	15469	C	VAL	G	836	20.749	83.800	84.564	1.00	58.01	6
ATOM	15470	O	VAL	G	836	21.628	84.592	84.244	1.00	59.23	8
ATOM	15471	N	GLY	G	837	20.855	83.026	85.638	1.00	36.53	7
ATOM	15472	CA	GLY	G	837	22.060	83.057	86.450	1.00	38.40	6
ATOM	15473	C	GLY	G	837	22.513	81.641	86.730	1.00	40.39	6
ATOM	15474	O	GLY	G	837	22.492	81.195	87.878	1.00	39.49	8
ATOM	15475	N	ALA	G	838	22.932	80.957	85.661	1.00	85.86	7
ATOM	15476	CA	ALA	G	838	23.381	79.554	85.657	1.00	88.47	6
ATOM	15477	CB	ALA	G	838	23.980	79.225	84.286	1.00	13.87	6
ATOM	15478	C	ALA	G	838	24.315	79.048	86.766	1.00	91.15	6
ATOM	15479	O	ALA	G	838	24.182	79.431	87.929	1.00	92.10	8
ATOM	15480	N	ALA	G	839	25.249	78.168	86.409	1.00	80.78	7
ATOM	15481	CA	ALA	G	839	26.157	77.606	87.403	1.00	84.32	6
ATOM	15482	CB	ALA	G	839	25.361	76.824	88.413	1.00	81.40	6
ATOM	15483	C	ALA	G	839	27.252	76.711	86.824	1.00	87.11	6
ATOM	15484	O	ALA	G	839	28.266	77.201	86.328	1.00	88.40	8
ATOM	15485	N	ALA	G	840	27.044	75.397	86.915	1.00	114.09	7
ATOM	15486	CA	ALA	G	840	27.993	74.400	86.415	1.00	115.95	6
ATOM	15487	CB	ALA	G	840	28.102	74.501	84.878	1.00	1	

ATOM	15504	O	ALA	G	843	33.176	67.200	84.322	1.00120.87	8
ATOM	15505	N	ALA	G	844	31.756	68.951	84.510	1.00208.87	7
ATOM	15506	CA	ALA	G	844	31.255	68.884	83.139	1.00208.87	6
ATOM	15507	CB	ALA	G	844	29.797	68.419	83.128	1.00 47.41	6
ATOM	15508	C	ALA	G	844	31.365	70.259	82.485	1.00208.87	6
ATOM	15509	O	ALA	G	844	31.110	70.407	81.289	1.00208.87	8
ATOM	15510	N	ALA	G	845	31.743	71.257	83.284	1.00194.04	7
ATOM	15511	CA	ALA	G	845	31.896	72.637	82.820	1.00192.47	6
ATOM	15512	CB	ALA	G	845	32.714	72.664	81.533	1.00131.73	6
ATOM	15513	C	ALA	G	845	30.532	73.299	82.601	1.00190.88	6
ATOM	15514	O	ALA	G	845	29.496	72.648	82.738	1.00192.41	8
ATOM	15515	N	PRO	G	846	30.512	74.606	82.271	1.00 50.98	7
ATOM	15516	CD	PRO	G	846	31.637	75.540	82.096	1.00103.52	6
ATOM	15517	CA	PRO	G	846	29.238	75.297	82.046	1.00 48.41	6
ATOM	15518	CB	PRO	G	846	29.656	76.756	81.952	1.00102.16	6
ATOM	15519	CG	PRO	G	846	30.994	76.659	81.311	1.00103.17	6
ATOM	15520	C	PRO	G	846	28.568	74.806	80.770	1.00 46.22	6
ATOM	15521	O	PRO	G	846	28.186	75.603	79.909	1.00 45.30	8
ATOM	15522	N	ALA	G	847	28.438	73.485	80.665	1.00 85.27	7
ATOM	15523	CA	ALA	G	847	27.828	72.823	79.517	1.00 82.84	6
ATOM	15524	CB	ALA	G	847	28.130	71.327	79.563	1.00 13.87	6
ATOM	15525	C	ALA	G	847	26.323	73.048	79.496	1.00 81.47	6
ATOM	15526	O	ALA	G	847	25.632	72.617	78.576	1.00 81.55	8
ATOM	15527	N	ALA	G	848	25.822	73.723	80.521	1.00 47.32	7
ATOM	15528	CA	ALA	G	848	24.402	74.011	80.632	1.00 46.22	6
ATOM	15529	CB	ALA	G	848	23.932	73.760	82.057	1.00115.44	6
ATOM	15530	C	ALA	G	848	24.146	75.455	80.250	1.00 45.01	6
ATOM	15531	O	ALA	G	848	23.040	75.816	79.851	1.00 44.26	8
ATOM	15532	N	ALA	G	849	25.181	76.278	80.391	1.00 78.01	7
ATOM	15533	CA	ALA	G	849	25.098	77.695	80.061	1.00 76.65	6
ATOM	15534	CB	ALA	G	849	26.427	78.371	80.344	1.00 92.48	6
ATOM	15535	C	ALA	G	849	24.774	77.791	78.589	1.00 75.26	6
ATOM	15536	O	ALA	G	849	23.811	78.440	78.184	1.00 74.63	8
ATOM	15537	N	LEU	G	850	25.600	77.126	77.795	1.00 56.81	7
ATOM	15538	CA	LEU	G	850	25.427	77.097	76.360	1.00 57.05	6
ATOM	15539	CB	LEU	G	850	26.667	76.471	75.731	1.00 59.78	6
ATOM	15540	CG	LEU	G	850	27.960	77.154	76.181	1.00 60.71	6
ATOM	15541	CD1	LEU	G	850	29.175	76.290	75.879	1.00 60.01	6
ATOM	15542	CD2	LEU	G	850	28.059	78.495	75.484	1.00 60.96	6
ATOM	15543	C	LEU	G	850	24.152	76.317	75.989	1.00 57.30	6
ATOM	15544	O	LEU	G	850	23.514	76.616	74.980	1.00 59.09	8
ATOM	15545	N	LEU	G	851	23.793	75.313	76.793	1.00 48.82	7
ATOM	15546	CA	LEU	G	851	22.573	74.538	76.555	1.00 48.00	6
ATOM	15547	CB	LEU	G	851	22.480	73.346	77.532	1.00 43.03	6
ATOM	15548	CG	LEU	G	851	21.160	72.812	78.156	1.00 41.25	6
ATOM	15549	CD1	LEU	G	851	20.113	72.546	77.095	1.00 38.43	6
ATOM	15550	CD2	LEU	G	851	21.449	71.525	78.960	1.00 39.11	6
ATOM	15551	C	LEU	G	851	21.436	75.514	76.806	1.00 48.73	6
ATOM	15552	O	LEU	G	851	20.439	75.532	76.081	1.00 48.56	8
ATOM	15553	N	ALA	G	852	21.605	76.332	77.842	1.00 76.04	7
ATOM	15554	CA	ALA	G	852	20.619	77.340	78.201	1.00 76.01	6
ATOM	15555	CB	ALA	G	852	21.040	78.050	79.476	1.00114.18	6
ATOM	15556	C	ALA	G	852	20.585	78.318	77.042	1.00 75.57	6
ATOM	15557	O	ALA	G	852	19.539	78.878	76.700	1.00 76.61	8
ATOM	15558	N	VAL	G	853	21.754	78.502	76.443	1.00 47.51	7
ATOM	15559	CA	VAL	G	853	21.933	79.385	75.305	1.00 46.91	6

ATOM	15560	CB	VAL	G	853	23.402	79.614	75.066	1.00	27.72	6
ATOM	15561	CG1	VAL	G	853	23.625	80.212	73.694	1.00	27.61	6
ATOM	15562	CG2	VAL	G	853	23.925	80.503	76.145	1.00	27.86	6
ATOM	15563	C	VAL	G	853	21.319	78.817	74.032	1.00	47.80	6
ATOM	15564	O	VAL	G	853	20.977	79.565	73.105	1.00	47.89	8
ATOM	15565	N	ALA	G	854	21.212	77.492	73.980	1.00	44.35	7
ATOM	15566	CA	ALA	G	854	20.623	76.838	72.831	1.00	44.74	6
ATOM	15567	CB	ALA	G	854	20.693	75.338	72.976	1.00	13.87	6
ATOM	15568	C	ALA	G	854	19.190	77.307	72.875	1.00	45.80	6
ATOM	15569	O	ALA	G	854	18.928	78.487	72.636	1.00	46.51	8
ATOM	15570	N	HIS	G	855	18.274	76.399	73.207	1.00	34.17	7
ATOM	15571	CA	HIS	G	855	16.848	76.715	73.296	1.00	34.09	6
ATOM	15572	CB	HIS	G	855	16.262	76.104	74.564	1.00	73.08	6
ATOM	15573	CG	HIS	G	855	16.820	74.760	74.900	1.00	75.47	6
ATOM	15574	CD2	HIS	G	855	17.886	74.084	74.409	1.00	76.75	6
ATOM	15575	ND1	HIS	G	855	16.277	73.956	75.876	1.00	77.24	7
ATOM	15576	CE1	HIS	G	855	16.982	72.844	75.973	1.00	78.37	6
ATOM	15577	NE2	HIS	G	855	17.964	72.896	75.092	1.00	78.10	7
ATOM	15578	C	HIS	G	855	16.655	78.231	73.325	1.00	34.10	6
ATOM	15579	O	HIS	G	855	16.839	78.867	74.369	1.00	32.27	8
ATOM	15580	N	GLY	G	856	16.309	78.785	72.163	1.00	57.69	7
ATOM	15581	CA	GLY	G	856	16.102	80.216	71.992	1.00	60.89	6
ATOM	15582	C	GLY	G	856	16.225	81.136	73.193	1.00	62.46	6
ATOM	15583	O	GLY	G	856	15.353	81.975	73.412	1.00	62.26	8
ATOM	15584	N	LEU	G	857	17.310	81.007	73.952	1.00	131.92	7
ATOM	15585	CA	LEU	G	857	17.525	81.826	75.141	1.00	132.97	6
ATOM	15586	CB	LEU	G	857	17.232	81.007	76.396	1.00	54.85	6
ATOM	15587	CG	LEU	G	857	16.472	81.751	77.493	1.00	55.64	6
ATOM	15588	CD1	LEU	G	857	16.724	83.264	77.381	1.00	55.61	6
ATOM	15589	CD2	LEU	G	857	14.984	81.437	77.365	1.00	55.37	6
ATOM	15590	C	LEU	G	857	18.972	82.302	75.173	1.00	133.58	6
ATOM	15591	O	LEU	G	857	19.717	82.017	74.235	1.00	134.35	8
ATOM	15592	N	LEU	G	858	19.368	82.999	76.245	1.00	76.53	7
ATOM	15593	CA	LEU	G	858	20.738	83.520	76.381	1.00	76.29	6
ATOM	15594	CB	LEU	G	858	21.576	82.649	77.314	1.00	53.66	6
ATOM	15595	CG	LEU	G	858	21.318	82.796	78.812	1.00	55.24	6
ATOM	15596	CD1	LEU	G	858	22.412	82.050	79.600	1.00	56.31	6
ATOM	15597	CD2	LEU	G	858	21.304	84.273	79.187	1.00	54.77	6
ATOM	15598	C	LEU	G	858	21.387	83.550	75.014	1.00	75.57	6
ATOM	15599	O	LEU	G	858	22.021	82.581	74.595	1.00	75.87	8
ATOM	15600	N	ASP	G	859	21.229	84.670	74.324	1.00	64.08	7
ATOM	15601	CA	ASP	G	859	21.730	84.797	72.976	1.00	62.99	6
ATOM	15602	CB	ASP	G	859	21.503	86.205	72.462	1.00	36.94	6
ATOM	15603	CG	ASP	G	859	21.144	86.214	71.006	1.00	37.04	6
ATOM	15604	OD1	ASP	G	859	21.487	85.235	70.326	1.00	37.03	8
ATOM	15605	OD2	ASP	G	859	20.529	87.186	70.534	1.00	37.67	8
ATOM	15606	C	ASP	G	859	23.166	84.404	72.707	1.00	63.17	6
ATOM	15607	O	ASP	G	859	23.502	84.108	71.561	1.00	63.59	8
ATOM	15608	N	LEU	G	860	24.012	84.394	73.735	1.00	67.02	7
ATOM	15609	CA	LEU	G	860	25.418	84.030	73.547	1.00	65.71	6
ATOM	15610	CB	LEU	G	860	25.557	82.766	72.703	1.00	17.81	6
ATOM	15611	CG	LEU	G	860	26.786	82.676	71.802	1.00	14.86	6
ATOM	15612	CD1	LEU	G	860	27.904	82.080	72.574	1.00	13.87	6
ATOM	15613	CD2	LEU	G	860	26.486	81.822	70.591	1.00	15.21	6
ATOM	15614	C	LEU	G	860	26.142	85.142	72.837	1.00	66.23	6
ATOM	15615	O	LEU	G	860	27.361	85.261	72.968	1.00	67.08	8

ATOM	15616	N	GLN	G	861	25.396	85.939	72.064	1.00	72.96	7
ATOM	15617	CA	GLN	G	861	25.959	87.077	71.335	1.00	71.46	6
ATOM	15618	CB	GLN	G	861	24.860	87.864	70.619	1.00	78.31	6
ATOM	15619	CG	GLN	G	861	24.539	87.318	69.231	1.00	81.15	6
ATOM	15620	CD	GLN	G	861	23.057	87.374	68.877	1.00	83.32	6
ATOM	15621	OE1	GLN	G	861	22.379	88.375	69.117	1.00	85.90	8
ATOM	15622	NE2	GLN	G	861	22.555	86.296	68.287	1.00	82.53	7
ATOM	15623	C	GLN	G	861	26.576	87.892	72.437	1.00	69.40	6
ATOM	15624	O	GLN	G	861	27.116	88.972	72.219	1.00	67.89	8
ATOM	15625	N	ALA	G	862	26.455	87.304	73.627	1.00	71.01	7
ATOM	15626	CA	ALA	G	862	26.963	87.783	74.894	1.00	69.91	6
ATOM	15627	CB	ALA	G	862	28.175	88.635	74.677	1.00	147.44	6
ATOM	15628	C	ALA	G	862	25.901	88.531	75.654	1.00	68.60	6
ATOM	15629	O	ALA	G	862	25.458	89.593	75.231	1.00	68.70	8
ATOM	15630	N	THR	G	863	25.490	87.969	76.783	1.00	30.07	7
ATOM	15631	CA	THR	G	863	24.452	88.593	77.585	1.00	29.08	6
ATOM	15632	CB	THR	G	863	23.209	87.705	77.677	1.00	73.20	6
ATOM	15633	OG1	THR	G	863	23.590	86.423	78.198	1.00	76.57	8
ATOM	15634	CG2	THR	G	863	22.535	87.562	76.301	1.00	72.02	6
ATOM	15635	C	THR	G	863	24.913	88.887	78.995	1.00	26.54	6
ATOM	15636	O	THR	G	863	24.191	89.512	79.775	1.00	25.80	8
ATOM	15637	N	VAL	G	864	26.120	88.451	79.319	1.00	23.50	7
ATOM	15638	CA	VAL	G	864	26.650	88.674	80.654	1.00	22.07	6
ATOM	15639	CB	VAL	G	864	26.755	90.173	81.011	1.00	22.87	6
ATOM	15640	CG1	VAL	G	864	28.005	90.414	81.839	1.00	23.36	6
ATOM	15641	CG2	VAL	G	864	26.761	91.023	79.765	1.00	22.10	6
ATOM	15642	C	VAL	G	864	25.699	88.033	81.650	1.00	22.10	6
ATOM	15643	O	VAL	G	864	24.829	88.683	82.212	1.00	21.15	8
ATOM	15644	N	THR	G	865	25.864	86.737	81.843	1.00	45.08	7
ATOM	15645	CA	THR	G	865	25.041	85.986	82.771	1.00	45.06	6
ATOM	15646	CB	THR	G	865	24.487	84.729	82.066	1.00	128.34	6
ATOM	15647	OG1	THR	G	865	23.562	85.136	81.050	1.00	131.99	8
ATOM	15648	CG2	THR	G	865	23.804	83.790	83.044	1.00	129.13	6
ATOM	15649	C	THR	G	865	26.023	85.599	83.865	1.00	43.63	6
ATOM	15650	O	THR	G	865	27.160	86.088	83.877	1.00	43.54	8
ATOM	15651	N	THR	G	866	25.593	84.776	84.813	1.00	25.61	7
ATOM	15652	CA	THR	G	866	26.528	84.321	85.814	1.00	24.71	6
ATOM	15653	CB	THR	G	866	25.940	84.272	87.204	1.00	31.23	6
ATOM	15654	OG1	THR	G	866	25.644	85.600	87.653	1.00	31.75	8
ATOM	15655	CG2	THR	G	866	26.945	83.639	88.150	1.00	31.73	6
ATOM	15656	C	THR	G	866	26.833	82.909	85.357	1.00	25.15	6
ATOM	15657	O	THR	G	866	25.953	82.201	84.889	1.00	24.89	8
ATOM	15658	N	ALA	G	867	28.090	82.518	85.447	1.00	41.03	7
ATOM	15659	CA	ALA	G	867	28.494	81.193	85.038	1.00	41.48	6
ATOM	15660	CB	ALA	G	867	28.903	81.199	83.570	1.00	13.87	6
ATOM	15661	C	ALA	G	867	29.668	80.845	85.934	1.00	42.73	6
ATOM	15662	O	ALA	G	867	30.497	81.700	86.229	1.00	43.69	8
ATOM	15663	N	ALA	G	868	29.719	79.604	86.395	1.00	34.32	7
ATOM	15664	CA	ALA	G	868	30.795	79.174	87.265	1.00	36.10	6
ATOM	15665	CB	ALA	G	868	30.258	78.199	88.290	1.00	42.76	6
ATOM	15666	C	ALA	G	868	31.920	78.534	86.460	1.00	37.63	6
ATOM	15667	O	ALA	G	868	31.771	78.286	85.272	1.00	37.79	8
ATOM	15668	N	ALA	G	869	33.043	78.280	87.125	1.00	66.65	7
ATOM	15669	CA	ALA	G	869	34.228	77.668	86.520	1.00	68.09	6
ATOM	15670	CB	ALA	G	869	34.647	78.440	85.274	1.00	129.92	6
ATOM	15671	C	ALA	G	869	35.352	77.698	87.555	1.00	68.88	6

ATOM	15672	O	ALA	G	869	36.538	77.748	87.216	1.00	68.88	8
ATOM	15673	N	GLY	G	870	34.951	77.657	88.821	1.00	57.15	7
ATOM	15674	CA	GLY	G	870	35.893	77.710	89.915	1.00	58.51	6
ATOM	15675	C	GLY	G	870	35.780	79.091	90.528	1.00	59.51	6
ATOM	15676	O	GLY	G	870	36.656	79.532	91.273	1.00	61.33	8
ATOM	15677	N	ALA	G	871	34.686	79.771	90.196	1.00	56.97	7
ATOM	15678	CA	ALA	G	871	34.395	81.123	90.677	1.00	56.70	6
ATOM	15679	CB	ALA	G	871	35.563	82.068	90.378	1.00	13.87	6
ATOM	15680	C	ALA	G	871	33.165	81.578	89.922	1.00	56.66	6
ATOM	15681	O	ALA	G	871	32.806	80.976	88.921	1.00	57.56	8
ATOM	15682	N	ARG	G	872	32.511	82.630	90.385	1.00	40.49	7
ATOM	15683	CA	ARG	G	872	31.332	83.101	89.674	1.00	39.68	6
ATOM	15684	CB	ARG	G	872	30.277	83.637	90.641	1.00	80.04	6
ATOM	15685	CG	ARG	G	872	29.585	82.579	91.465	1.00	83.64	6
ATOM	15686	CD	ARG	G	872	28.345	83.137	92.121	1.00	85.99	6
ATOM	15687	NE	ARG	G	872	27.866	82.219	93.141	1.00	89.26	7
ATOM	15688	CZ	ARG	G	872	26.865	82.485	93.968	1.00	91.96	6
ATOM	15689	NH1	ARG	G	872	26.232	83.648	93.890	1.00	93.33	7
ATOM	15690	NH2	ARG	G	872	26.513	81.598	94.889	1.00	93.53	7
ATOM	15691	C	ARG	G	872	31.685	84.194	88.696	1.00	37.68	6
ATOM	15692	O	ARG	G	872	32.000	85.298	89.099	1.00	36.99	8
ATOM	15693	N	LEU	G	873	31.621	83.902	87.409	1.00	33.92	7
ATOM	15694	CA	LEU	G	873	31.941	84.921	86.433	1.00	33.36	6
ATOM	15695	CB	LEU	G	873	32.749	84.327	85.278	1.00	19.03	6
ATOM	15696	CG	LEU	G	873	34.138	83.757	85.548	1.00	17.72	6
ATOM	15697	CD1	LEU	G	873	34.841	83.466	84.206	1.00	16.79	6
ATOM	15698	CD2	LEU	G	873	34.926	84.747	86.388	1.00	16.71	6
ATOM	15699	C	LEU	G	873	30.680	85.576	85.882	1.00	33.95	6
ATOM	15700	O	LEU	G	873	29.637	84.933	85.786	1.00	34.32	8
ATOM	15701	N	ALA	G	874	30.786	86.857	85.526	1.00	44.93	7
ATOM	15702	CA	ALA	G	874	29.667	87.612	84.962	1.00	44.76	6
ATOM	15703	CB	ALA	G	874	29.794	89.074	85.328	1.00	76.23	6
ATOM	15704	C	ALA	G	874	29.703	87.441	83.450	1.00	44.78	6
ATOM	15705	O	ALA	G	874	28.880	87.977	82.718	1.00	45.55	8
ATOM	15706	N	THR	G	875	30.700	86.686	83.018	1.00	14.16	7
ATOM	15707	CA	THR	G	875	30.958	86.334	81.632	1.00	14.84	6
ATOM	15708	CB	THR	G	875	31.768	85.005	81.635	1.00	56.84	6
ATOM	15709	OG1	THR	G	875	33.099	85.243	82.113	1.00	58.85	8
ATOM	15710	CG2	THR	G	875	31.826	84.393	80.274	1.00	59.65	6
ATOM	15711	C	THR	G	875	29.688	86.168	80.771			

ATOM	15728	N	GLY	G	878	29.165	83.295	75.449	1.00	55.73	7
ATOM	15729	CA	GLY	G	878	30.141	83.391	74.380	1.00	55.48	6
ATOM	15730	C	GLY	G	878	31.567	83.342	74.890	1.00	54.89	6
ATOM	15731	O	GLY	G	878	32.373	82.517	74.454	1.00	55.24	8
ATOM	15732	N	ARG	G	879	31.880	84.242	75.814	1.00	31.81	7
ATOM	15733	CA	ARG	G	879	33.207	84.303	76.401	1.00	30.20	6
ATOM	15734	CB	ARG	G	879	33.220	85.275	77.565	1.00	75.79	6
ATOM	15735	CG	ARG	G	879	32.059	86.258	77.592	1.00	77.49	6
ATOM	15736	CD	ARG	G	879	32.527	87.484	78.320	1.00	79.29	6
ATOM	15737	NE	ARG	G	879	33.866	87.775	77.830	1.00	82.26	7
ATOM	15738	CZ	ARG	G	879	34.149	87.970	76.548	1.00	83.44	6
ATOM	15739	NH1	ARG	G	879	33.180	87.931	75.648	1.00	84.99	7
ATOM	15740	NH2	ARG	G	879	35.404	88.132	76.155	1.00	83.51	7
ATOM	15741	C	ARG	G	879	33.507	82.914	76.919	1.00	29.15	6
ATOM	15742	O	ARG	G	879	34.648	82.466	76.902	1.00	29.73	8
ATOM	15743	N	ILE	G	880	32.459	82.247	77.392	1.00	38.04	7
ATOM	15744	CA	ILE	G	880	32.581	80.903	77.901	1.00	36.82	6
ATOM	15745	CB	ILE	G	880	31.246	80.398	78.486	1.00	59.31	6
ATOM	15746	CG2	ILE	G	880	31.308	78.892	78.738	1.00	59.60	6
ATOM	15747	CG1	ILE	G	880	30.927	81.163	79.773	1.00	60.99	6
ATOM	15748	CD1	ILE	G	880	32.017	81.068	80.842	1.00	60.31	6
ATOM	15749	C	ILE	G	880	32.970	80.052	76.716	1.00	35.96	6
ATOM	15750	O	ILE	G	880	33.970	79.345	76.767	1.00	37.18	8
ATOM	15751	N	LEU	G	881	32.191	80.135	75.639	1.00	29.30	7
ATOM	15752	CA	LEU	G	881	32.471	79.362	74.432	1.00	26.04	6
ATOM	15753	CB	LEU	G	881	31.557	79.823	73.297	1.00	13.87	6
ATOM	15754	CG	LEU	G	881	31.811	79.291	71.890	1.00	13.87	6
ATOM	15755	CD1	LEU	G	881	31.831	77.794	71.902	1.00	13.87	6
ATOM	15756	CD2	LEU	G	881	30.742	79.812	70.957	1.00	13.87	6
ATOM	15757	C	LEU	G	881	33.943	79.504	74.034	1.00	25.98	6
ATOM	15758	O	LEU	G	881	34.679	78.516	74.035	1.00	25.33	8
ATOM	15759	N	PHE	G	882	34.372	80.726	73.709	1.00	36.39	7
ATOM	15760	CA	PHE	G	882	35.766	80.962	73.329	1.00	37.30	6
ATOM	15761	CB	PHE	G	882	36.038	82.463	73.082	1.00	36.31	6
ATOM	15762	CG	PHE	G	882	37.453	82.766	72.588	1.00	35.49	6
ATOM	15763	CD1	PHE	G	882	37.754	82.769	71.230	1.00	35.22	6
ATOM	15764	CD2	PHE	G	882	38.488	83.004	73.484	1.00	35.56	6
ATOM	15765	CE1	PHE	G	882	39.063	83.000	70.782	1.00	35.92	6
ATOM	15766	CE2	PHE	G	882	39.787	83.233	73.039	1.00	35.40	6
ATOM	15767	CZ	PHE	G	882	40.071	83.229				



ATOM	15784	C	ARG	G	884	37.192	76.182	74.614	1.00	26.71	6
ATOM	15785	O	ARG	G	884	37.993	75.254	74.511	1.00	25.97	8
ATOM	15786	N	ILE	G	885	36.837	76.962	73.593	1.00	31.04	7
ATOM	15787	CA	ILE	G	885	37.407	76.790	72.262	1.00	30.99	6
ATOM	15788	CB	ILE	G	885	37.049	77.963	71.354	1.00	43.96	6
ATOM	15789	CG2	ILE	G	885	37.462	77.648	69.928	1.00	45.49	6
ATOM	15790	CG1	ILE	G	885	35.547	78.228	71.434	1.00	43.65	6
ATOM	15791	CD1	ILE	G	885	35.064	79.422	70.617	1.00	43.74	6
ATOM	15792	C	ILE	G	885	38.922	76.719	72.388	1.00	29.83	6
ATOM	15793	O	ILE	G	885	39.562	75.824	71.847	1.00	30.77	8
ATOM	15794	N	VAL	G	886	39.492	77.669	73.115	1.00	27.56	7
ATOM	15795	CA	VAL	G	886	40.930	77.699	73.323	1.00	26.35	6
ATOM	15796	CB	VAL	G	886	41.389	79.069	73.895	1.00	13.87	6
ATOM	15797	CG1	VAL	G	886	41.888	78.895	75.330	1.00	13.87	6
ATOM	15798	CG2	VAL	G	886	42.461	79.685	73.000	1.00	13.87	6
ATOM	15799	C	VAL	G	886	41.275	76.601	74.327	1.00	28.11	6
ATOM	15800	O	VAL	G	886	42.427	76.170	74.439	1.00	28.19	8
ATOM	15801	N	GLY	G	887	40.265	76.152	75.057	1.00	24.36	7
ATOM	15802	CA	GLY	G	887	40.494	75.132	76.056	1.00	27.35	6
ATOM	15803	C	GLY	G	887	40.717	73.766	75.459	1.00	29.17	6
ATOM	15804	O	GLY	G	887	41.823	73.231	75.496	1.00	28.82	8
ATOM	15805	N	GLU	G	888	39.655	73.202	74.902	1.00	65.82	7
ATOM	15806	CA	GLU	G	888	39.720	71.881	74.313	1.00	68.64	6
ATOM	15807	CB	GLU	G	888	38.323	71.428	73.925	1.00	39.77	6
ATOM	15808	CG	GLU	G	888	37.424	71.334	75.136	1.00	39.86	6
ATOM	15809	CD	GLU	G	888	35.985	71.159	74.769	1.00	39.84	6
ATOM	15810	OE1	GLU	G	888	35.529	71.899	73.875	1.00	39.80	8
ATOM	15811	OE2	GLU	G	888	35.312	70.298	75.377	1.00	40.62	8
ATOM	15812	C	GLU	G	888	40.647	71.844	73.127	1.00	70.30	6
ATOM	15813	O	GLU	G	888	40.818	70.806	72.499	1.00	71.83	8
ATOM	15814	N	ALA	G	889	41.242	72.989	72.823	1.00	43.05	7
ATOM	15815	CA	ALA	G	889	42.193	73.075	71.728	1.00	44.24	6
ATOM	15816	CB	ALA	G	889	42.284	74.501	71.220	1.00	76.02	6
ATOM	15817	C	ALA	G	889	43.530	72.639	72.316	1.00	44.97	6
ATOM	15818	O	ALA	G	889	44.224	71.791	71.755	1.00	43.95	8
ATOM	15819	N	VAL	G	890	43.874	73.227	73.458	1.00	54.40	7
ATOM	15820	CA	VAL	G	890	45.114	72.917	74.163	1.00	57.41	6
ATOM	15821	CB	VAL	G	890	45.787	74.225	74.693	1.00	49.51	6
ATOM	15822	CG1	VAL	G	890	47.081	73.911	75.357	1.00	48.83	6
ATOM	15823	CG2	VAL	G	890	46.047	75.188	73.560	1.00	49.11	6
ATOM	15824	C	VAL	G	890	44.755	71.989	75.337	1.00	59.76	6
ATOM	15825	O	VAL	G	890	43.702	71.352	75.330	1.00	61.17	8
ATOM	15826	N	GLY	G	891	45.624	71.904	76.336	1.00	79.51	7
ATOM	15827	CA	GLY	G	891	45.345	71.063	77.485	1.00	81.97	6
ATOM	15828	C	GLY	G	891	44.323	71.710	78.406	1.00	83.30	6
ATOM	15829	O	GLY	G	891	44.633	72.050	79.554	1.00	83.11	8
ATOM	15830	N	ASP	G	892	43.111	71.886	77.879	1.00	121.39	7
ATOM	15831	CA	ASP	G	892	41.962	72.476	78.580	1.00	124.21	6
ATOM	15832	CB	ASP	G	892	41.308	71.428	79.498	1.00	208.87	6
ATOM	15833	CG	ASP	G	892	42.236	70.942	80.601	1.00	208.87	6
ATOM	15834	OD1	ASP	G	892	42.697	71.775	81.413	1.00	208.87	8
ATOM	15835	OD2	ASP	G	892	42.498	69.721	80.658	1.00	208.87	8
ATOM	15836	C	ASP	G	892	42.179	73.769	79.374	1.00	124.31	6
ATOM	15837	O	ASP	G	892	43.309	74.218	79.566	1.00	124.47	8
ATOM	15838	N	GLU	G	893	41.070	74.358	79.826	1.00	35.77	7
ATOM	15839	CA	GLU	G	893	41.095	75.584	80.606	1.00	35.68	6

ATOM	15840	CB	GLU	G	893	39.683	75.905	81.123	1.00115.47	6
ATOM	15841	CG	GLU	G	893	38.669	76.228	80.012	1.00117.40	6
ATOM	15842	CD	GLU	G	893	37.233	76.432	80.516	1.00118.53	6
ATOM	15843	OE1	GLU	G	893	36.967	77.406	81.261	1.00117.96	8
ATOM	15844	OE2	GLU	G	893	36.367	75.606	80.154	1.00119.18	8
ATOM	15845	C	GLU	G	893	42.086	75.460	81.768	1.00 35.36	6
ATOM	15846	O	GLU	G	893	42.601	74.372	82.051	1.00 33.68	8
ATOM	15847	N	LYS	G	894	42.330	76.586	82.438	1.00 94.32	7
ATOM	15848	CA	LYS	G	894	43.287	76.689	83.542	1.00 94.70	6
ATOM	15849	CB	LYS	G	894	43.321	75.413	84.397	1.00 94.12	6
ATOM	15850	CG	LYS	G	894	42.439	75.480	85.641	1.00 96.11	6
ATOM	15851	CD	LYS	G	894	42.664	74.283	86.567	1.00 96.16	6
ATOM	15852	CE	LYS	G	894	41.797	74.372	87.826	1.00 95.52	6
ATOM	15853	NZ	LYS	G	894	41.985	73.206	88.740	1.00 94.50	7
ATOM	15854	C	LYS	G	894	44.650	76.928	82.907	1.00 94.03	6
ATOM	15855	O	LYS	G	894	45.236	78.003	83.029	1.00 94.64	8
ATOM	15856	N	VAL	G	895	45.147	75.915	82.215	1.00 49.20	7
ATOM	15857	CA	VAL	G	895	46.425	76.020	81.528	1.00 47.60	6
ATOM	15858	CB	VAL	G	895	46.765	74.711	80.762	1.00119.60	6
ATOM	15859	CG1	VAL	G	895	48.197	74.760	80.268	1.00120.33	6
ATOM	15860	CG2	VAL	G	895	46.531	73.493	81.649	1.00119.78	6
ATOM	15861	C	VAL	G	895	46.266	77.140	80.505	1.00 45.77	6
ATOM	15862	O	VAL	G	895	47.222	77.847	80.194	1.00 44.83	8
ATOM	15863	N	ALA	G	896	45.038	77.277	79.999	1.00 60.71	7
ATOM	15864	CA	ALA	G	896	44.676	78.272	78.991	1.00 60.52	6
ATOM	15865	CB	ALA	G	896	43.807	77.638	77.925	1.00 72.91	6
ATOM	15866	C	ALA	G	896	43.953	79.467	79.576	1.00 60.58	6
ATOM	15867	O	ALA	G	896	43.515	80.353	78.848	1.00 60.79	8
ATOM	15868	N	GLN	G	897	43.799	79.481	80.891	1.00100.94	7
ATOM	15869	CA	GLN	G	897	43.144	80.606	81.531	1.00100.51	6
ATOM	15870	CB	GLN	G	897	42.477	80.177	82.847	1.00 86.09	6
ATOM	15871	CG	GLN	G	897	41.343	81.096	83.327	1.00 86.84	6
ATOM	15872	CD	GLN	G	897	40.153	81.174	82.357	1.00 87.05	6
ATOM	15873	OE1	GLN	G	897	39.147	81.826	82.641	1.00 86.67	8
ATOM	15874	NE2	GLN	G	897	40.271	80.511	81.212	1.00 87.07	7
ATOM	15875	C	GLN	G	897	44.260	81.607	81.784	1.00100.40	6
ATOM	15876	O	GLN	G	897	44.012	82.747	82.159	1.00102.19	8
ATOM	15877	N	GLU	G	898	45.497	81.164	81.566	1.00 75.51	7
ATOM	15878	CA	GLU	G	898	46.671	82.012	81.745	1.00 74.64	6
ATOM	15879	CB	GLU	G	898	47.918	81.165	81.971	1.00 66.30	6
ATOM	15880	CG	GLU	G	898	48.050	80.667	83.385	1.00 67.20	6
ATOM	15881									

ATOM	15896	CB	ILE	G	900	42.281	83.627	77.609	1.00	36.61	6
ATOM	15897	CG2	ILE	G	900	40.897	84.202	77.398	1.00	35.79	6
ATOM	15898	CG1	ILE	G	900	42.381	82.514	76.582	1.00	37.49	6
ATOM	15899	CD1	ILE	G	900	41.455	81.390	76.897	1.00	40.24	6
ATOM	15900	C	ILE	G	900	42.968	86.012	78.022	1.00	23.21	6
ATOM	15901	O	ILE	G	900	43.421	86.335	79.126	1.00	22.80	8
ATOM	15902	N	GLN	G	901	42.134	86.774	77.325	1.00	19.87	7
ATOM	15903	CA	GLN	G	901	41.634	88.037	77.823	1.00	21.52	6
ATOM	15904	CB	GLN	G	901	41.628	89.039	76.674	1.00	68.31	6
ATOM	15905	CG	GLN	G	901	43.028	89.319	76.126	1.00	69.31	6
ATOM	15906	CD	GLN	G	901	43.756	90.391	76.913	1.00	69.07	6
ATOM	15907	OE1	GLN	G	901	43.625	91.581	76.623	1.00	68.55	8
ATOM	15908	NE2	GLN	G	901	44.514	89.979	77.923	1.00	68.90	7
ATOM	15909	C	GLN	G	901	40.229	87.746	78.346	1.00	22.56	6
ATOM	15910	O	GLN	G	901	39.302	88.552	78.234	1.00	21.99	8
ATOM	15911	N	MET	G	902	40.115	86.556	78.925	1.00	56.90	7
ATOM	15912	CA	MET	G	902	38.889	86.015	79.490	1.00	57.86	6
ATOM	15913	CB	MET	G	902	39.162	85.524	80.911	1.00	74.23	6
ATOM	15914	CG	MET	G	902	38.006	84.777	81.551	1.00	76.01	6
ATOM	15915	SD	MET	G	902	37.447	83.344	80.628	1.00	77.57	16
ATOM	15916	CE	MET	G	902	35.979	84.035	79.850	1.00	78.20	6
ATOM	15917	C	MET	G	902	37.689	86.951	79.477	1.00	57.85	6
ATOM	15918	O	MET	G	902	36.691	86.652	78.824	1.00	57.85	8
ATOM	15919	N	ASP	G	903	37.789	88.074	80.190	1.00	35.08	7
ATOM	15920	CA	ASP	G	903	36.697	89.032	80.257	1.00	35.13	6
ATOM	15921	CB	ASP	G	903	36.767	89.869	81.529	1.00	71.82	6
ATOM	15922	CG	ASP	G	903	38.069	90.597	81.668	1.00	75.46	6
ATOM	15923	OD1	ASP	G	903	38.706	90.871	80.630	1.00	77.78	8
ATOM	15924	OD2	ASP	G	903	38.451	90.911	82.818	1.00	77.13	8
ATOM	15925	C	ASP	G	903	36.678	89.930	79.039	1.00	34.20	6
ATOM	15926	O	ASP	G	903	37.645	90.639	78.733	1.00	32.37	8
ATOM	15927	N	VAL	G	904	35.536	89.858	78.360	1.00	162.58	7
ATOM	15928	CA	VAL	G	904	35.201	90.558	77.123	1.00	162.19	6
ATOM	15929	CB	VAL	G	904	33.790	91.172	77.211	1.00	40.65	6
ATOM	15930	CG1	VAL	G	904	33.117	91.147	75.858	1.00	39.86	6
ATOM	15931	CG2	VAL	G	904	32.968	90.410	78.195	1.00	39.71	6
ATOM	15932	C	VAL	G	904	36.141	91.589	76.537	1.00	163.22	6
ATOM	15933	O	VAL	G	904	35.938	92.793	76.680	1.00	164.16	8
ATOM	15934	N	PRO	G	905	37.197	91.119	75.863	1.00	60.14	7
ATOM	15935	CD	PRO	G	905	37.735	89.749	75			

ATOM	15952	CB	GLU	G	907	39.525	88.057	70.013	1.00	46.27	6
ATOM	15953	CG	GLU	G	907	39.867	87.081	71.139	1.00	46.49	6
ATOM	15954	CD	GLU	G	907	39.044	87.268	72.387	1.00	45.93	6
ATOM	15955	OE1	GLU	G	907	37.801	87.271	72.283	1.00	44.60	8
ATOM	15956	OE2	GLU	G	907	39.649	87.394	73.474	1.00	45.94	8
ATOM	15957	C	GLU	G	907	40.017	90.296	68.976	1.00	77.28	6
ATOM	15958	O	GLU	G	907	39.047	90.924	68.550	1.00	78.63	8
ATOM	15959	N	LYS	G	908	41.194	90.253	68.353	1.00	24.13	7
ATOM	15960	CA	LYS	G	908	41.473	90.950	67.107	1.00	22.51	6
ATOM	15961	CB	LYS	G	908	40.815	92.330	67.108	1.00	159.89	6
ATOM	15962	CG	LYS	G	908	41.446	93.325	66.150	1.00	164.86	6
ATOM	15963	CD	LYS	G	908	42.212	94.429	66.892	1.00	167.39	6
ATOM	15964	CE	LYS	G	908	42.750	95.498	65.930	1.00	168.09	6
ATOM	15965	NZ	LYS	G	908	43.541	96.566	66.618	1.00	167.48	7
ATOM	15966	C	LYS	G	908	42.986	91.111	66.997	1.00	20.27	6
ATOM	15967	O	LYS	G	908	43.610	90.720	66.009	1.00	18.93	8
ATOM	15968	N	ASN	G	909	43.583	91.689	68.031	1.00	57.22	7
ATOM	15969	CA	ASN	G	909	45.022	91.923	68.046	1.00	55.65	6
ATOM	15970	CB	ASN	G	909	45.291	93.389	68.387	1.00	48.68	6
ATOM	15971	CG	ASN	G	909	46.433	93.979	67.589	1.00	47.29	6
ATOM	15972	OD1	ASN	G	909	47.543	93.441	67.584	1.00	46.58	8
ATOM	15973	ND2	ASN	G	909	46.168	95.100	66.911	1.00	46.82	7
ATOM	15974	C	ASN	G	909	45.638	91.037	69.109	1.00	54.42	6
ATOM	15975	O	ASN	G	909	46.855	90.933	69.219	1.00	54.18	8
ATOM	15976	N	SER	G	910	44.769	90.420	69.904	1.00	63.47	7
ATOM	15977	CA	SER	G	910	45.175	89.543	70.990	1.00	60.11	6
ATOM	15978	CB	SER	G	910	44.116	89.497	72.077	1.00	13.87	6
ATOM	15979	OG	SER	G	910	42.975	88.782	71.635	1.00	13.87	8
ATOM	15980	C	SER	G	910	45.324	88.149	70.461	1.00	58.93	6
ATOM	15981	O	SER	G	910	46.290	87.455	70.782	1.00	60.96	8
ATOM	15982	N	LEU	G	911	44.336	87.728	69.674	1.00	20.64	7
ATOM	15983	CA	LEU	G	911	44.360	86.393	69.095	1.00	16.36	6
ATOM	15984	CB	LEU	G	911	43.449	86.335	67.870	1.00	13.87	6
ATOM	15985	CG	LEU	G	911	42.081	85.679	68.034	1.00	13.87	6
ATOM	15986	CD1	LEU	G	911	41.751	85.421	69.480	1.00	13.87	6
ATOM	15987	CD2	LEU	G	911	41.066	86.563	67.389	1.00	13.87	6
ATOM	15988	C	LEU	G	911	45.806	86.174	68.725	1.00	15.35	6
ATOM	15989	O	LEU	G	911	46.438	85.228	69.183	1.00	13.87	8
ATOM	15990	N	LYS	G	912	46.331	87.095	67.934	1.00	15.44	7
ATOM	15991	CA	LYS	G	912	47.719	87.037	67.539	1.00	18.81	6
ATOM	15992	CB	LYS	G	912	48.117	88.362	66.885	1.00	42.46	6
ATOM	15993	CG	LYS	G	912	49.592	88.491	66.508	1.00	43.58	6
ATOM	15994	CD	LYS	G	912	49.831	89.784	65.744	1.00	44.30	6
ATOM	15995	CE	LYS	G	912	51.225	89.858	65.159	1.00	45.82	6
ATOM	15996	NZ	LYS	G	912	51.267	90.850	64.043	1.00	43.71	7
ATOM	15997	C	LYS	G	912	48.584	86.772	68.780	1.00	19.99	6
ATOM	15998	O	LYS	G	912	49.181	85.706	68.915	1.00	20.14	8
ATOM	15999	N	ASP	G	913	48.637	87.723	69.702	1.00	47.75	7
ATOM	16000	CA	ASP	G	913	49.457	87.518	70.876	1.00	48.99	6
ATOM	16001	CB	ASP	G	913	49.361	88.710	71.826	1.00	82.36	6
ATOM	16002	CG	ASP	G	913	50.480	88.712	72.854	1.00	88.19	6
ATOM	16003	OD1	ASP	G	913	50.269	88.161	73.955	1.00	90.42	8
ATOM	16004	OD2	ASP	G	913	51.578	89.243	72.555	1.00	89.92	8
ATOM	16005	C	ASP	G	913	49.130	86.217	71.599	1.00	47.74	6
ATOM	16006	O	ASP	G	913	50.046	85.531	72.053	1.00	47.79	8
ATOM	16007	N	LEU	G	914	47.849	85.858	71.707	1.00	49.81	7

ATOM	16008	CA	LEU	G	914	47.502	84.598	72.367	1.00	47.58	6
ATOM	16009	CB	LEU	G	914	46.026	84.242	72.190	1.00	13.87	6
ATOM	16010	CG	LEU	G	914	45.480	83.139	73.125	1.00	13.87	6
ATOM	16011	CD1	LEU	G	914	44.332	82.460	72.432	1.00	13.87	6
ATOM	16012	CD2	LEU	G	914	46.523	82.098	73.501	1.00	13.87	6
ATOM	16013	C	LEU	G	914	48.336	83.536	71.660	1.00	47.64	6
ATOM	16014	O	LEU	G	914	49.135	82.835	72.293	1.00	47.19	8
ATOM	16015	N	VAL	G	915	48.132	83.435	70.344	1.00	29.23	7
ATOM	16016	CA	VAL	G	915	48.850	82.496	69.507	1.00	27.15	6
ATOM	16017	CB	VAL	G	915	48.651	82.793	68.055	1.00	13.87	6
ATOM	16018	CG1	VAL	G	915	49.385	81.791	67.222	1.00	13.87	6
ATOM	16019	CG2	VAL	G	915	47.213	82.767	67.748	1.00	13.87	6
ATOM	16020	C	VAL	G	915	50.326	82.603	69.783	1.00	29.16	6
ATOM	16021	O	VAL	G	915	51.032	81.602	69.737	1.00	30.18	8
ATOM	16022	N	TYR	G	916	50.811	83.811	70.055	1.00	26.69	7
ATOM	16023	CA	TYR	G	916	52.223	83.950	70.347	1.00	28.19	6
ATOM	16024	CB	TYR	G	916	52.716	85.388	70.236	1.00	19.64	6
ATOM	16025	CG	TYR	G	916	54.173	85.517	70.687	1.00	17.65	6
ATOM	16026	CD1	TYR	G	916	55.177	85.886	69.800	1.00	15.59	6
ATOM	16027	CE1	TYR	G	916	56.507	85.923	70.211	1.00	14.46	6
ATOM	16028	CD2	TYR	G	916	54.555	85.198	71.996	1.00	16.37	6
ATOM	16029	CE2	TYR	G	916	55.869	85.232	72.404	1.00	14.46	6
ATOM	16030	CZ	TYR	G	916	56.832	85.594	71.515	1.00	14.46	6
ATOM	16031	OH	TYR	G	916	58.124	85.650	71.952	1.00	15.03	8
ATOM	16032	C	TYR	G	916	52.543	83.466	71.742	1.00	30.99	6
ATOM	16033	O	TYR	G	916	53.214	82.451	71.901	1.00	31.41	8
ATOM	16034	N	GLN	G	917	52.089	84.205	72.756	1.00	59.90	7
ATOM	16035	CA	GLN	G	917	52.397	83.849	74.138	1.00	63.11	6
ATOM	16036	CB	GLN	G	917	51.934	84.948	75.110	1.00	81.73	6
ATOM	16037	CG	GLN	G	917	53.070	85.932	75.512	1.00	83.43	6
ATOM	16038	CD	GLN	G	917	53.127	87.239	74.685	1.00	83.94	6
ATOM	16039	OE1	GLN	G	917	52.944	87.238	73.463	1.00	82.83	8
ATOM	16040	NE2	GLN	G	917	53.407	88.355	75.364	1.00	82.96	7
ATOM	16041	C	GLN	G	917	51.874	82.491	74.555	1.00	64.25	6
ATOM	16042	O	GLN	G	917	51.684	82.217	75.735	1.00	65.21	8
ATOM	16043	N	ALA	G	918	51.667	81.647	73.551	1.00	59.02	7
ATOM	16044	CA	ALA	G	918	51.209	80.274	73.706	1.00	60.12	6
ATOM	16045	CB	ALA	G	918	49.903	80.063	72.959	1.00	68.85	6
ATOM	16046	C	ALA	G	918	52.315	79.458	73.061	1.00	60.57	6
ATOM	16047	O	ALA	G	918	52.746	78.440	73.596	1.00	61.30	8
ATOM	16048	N	PHE	G	919	52.767	79.939	71.903	1.00	49.26	7
ATOM	16049	CA	PHE	G	919	53.846	79.321	71.135	1.00	47.60	6
ATOM	16050	CB	PHE	G	919	54.330	80.267	70.027	1.00	27.52	6
ATOM	16051	CG	PHE	G	919	55.359	79.657	69.101	1.00	22.68	6
ATOM	16052	CD1	PHE	G	919	54.978	79.089	67.893	1.00	21.13	6
ATOM	16053	CD2	PHE	G	919	56.705	79.641	69.446	1.00	19.18	6
ATOM	16054	CE1	PHE	G	919	55.916	78.523	67.060	1.00	19.37	6
ATOM	16055	CE2	PHE	G	919	57.646	79.076	68.612	1.00	16.91	6
ATOM	16056	CZ	PHE	G	919	57.251	78.518	67.422	1.00	18.48	6
ATOM	16057	C	PHE	G	919	54.996	79.058	72.079	1.00	47.88	6
ATOM	16058	O	PHE	G	919	55.787	78.149	71.863	1.00	48.05	8
ATOM	16059	N	LEU	G	920	55.085	79.874	73.121	1.00	28.94	7
ATOM	16060	CA	LEU	G	920	56.131	79.731	74.112	1.00	30.43	6
ATOM	16061	CB	LEU	G	920	56.441	81.075	74.761	1.00	38.31	6
ATOM	16062	CG	LEU	G	920	56.834	82.276	73.897	1.00	38.74	6
ATOM	16063	CD1	LEU	G	920	58.285	82.609	74.179	1.00	37.41	6

ATOM	16064	CD2	LEU	G	920	56.610	82.005	72.417	1.00	38.21	6
ATOM	16065	C	LEU	G	920	55.689	78.753	75.197	1.00	32.43	6
ATOM	16066	O	LEU	G	920	56.437	77.828	75.544	1.00	33.77	8
ATOM	16067	N	ARG	G	921	54.473	78.939	75.720	1.00	36.83	7
ATOM	16068	CA	ARG	G	921	53.960	78.084	76.798	1.00	37.20	6
ATOM	16069	CB	ARG	G	921	52.768	78.752	77.490	1.00	95.12	6
ATOM	16070	CG	ARG	G	921	53.079	80.115	78.083	1.00	99.99	6
ATOM	16071	CD	ARG	G	921	52.298	80.351	79.366	1.00	103.84	6
ATOM	16072	NE	ARG	G	921	52.402	81.737	79.817	1.00	109.71	7
ATOM	16073	CZ	ARG	G	921	51.989	82.173	81.003	1.00	112.84	6
ATOM	16074	NH1	ARG	G	921	51.444	81.327	81.867	1.00	114.38	7
ATOM	16075	NH2	ARG	G	921	52.118	83.456	81.326	1.00	113.91	7
ATOM	16076	C	ARG	G	921	53.565	76.681	76.368	1.00	35.46	6
ATOM	16077	O	ARG	G	921	53.420	75.787	77.193	1.00	35.44	8
ATOM	16078	N	LEU	G	922	53.397	76.494	75.073	1.00	64.30	7
ATOM	16079	CA	LEU	G	922	53.026	75.200	74.541	1.00	63.50	6
ATOM	16080	CB	LEU	G	922	51.507	75.146	74.366	1.00	18.17	6
ATOM	16081	CG	LEU	G	922	50.712	75.602	75.585	1.00	16.20	6
ATOM	16082	CD1	LEU	G	922	49.233	75.769	75.264	1.00	14.05	6
ATOM	16083	CD2	LEU	G	922	50.930	74.612	76.669	1.00	14.42	6
ATOM	16084	C	LEU	G	922	53.744	75.045	73.196	1.00	63.72	6
ATOM	16085	O	LEU	G	922	53.769	75.982	72.390	1.00	64.88	8
ATOM	16086	N	GLY	G	923	54.340	73.879	72.951	1.00	33.24	7
ATOM	16087	CA	GLY	G	923	55.049	73.674	71.694	1.00	32.46	6
ATOM	16088	C	GLY	G	923	54.243	73.916	70.420	1.00	31.64	6
ATOM	16089	O	GLY	G	923	53.027	74.105	70.455	1.00	32.09	8
ATOM	16090	N	MET	G	924	54.934	73.911	69.285	1.00	24.29	7
ATOM	16091	CA	MET	G	924	54.301	74.118	67.988	1.00	22.47	6
ATOM	16092	CB	MET	G	924	55.242	73.727	66.865	1.00	31.67	6
ATOM	16093	CG	MET	G	924	56.426	74.602	66.683	1.00	30.54	6
ATOM	16094	SD	MET	G	924	57.356	73.819	65.405	1.00	29.77	16
ATOM	16095	CE	MET	G	924	58.727	73.169	66.390	1.00	30.31	6
ATOM	16096	C	MET	G	924	53.073	73.255	67.844	1.00	23.04	6
ATOM	16097	O	MET	G	924	51.972	73.741	67.601	1.00	23.98	8
ATOM	16098	N	GLU	G	925	53.293	71.956	67.955	1.00	36.57	7
ATOM	16099	CA	GLU	G	925	52.222	71.004	67.836	1.00	37.61	6
ATOM	16100	CB	GLU	G	925	52.603	69.682	68.521	1.00	102.24	6
ATOM	16101	CG	GLU	G	925	53.701	69.789	69.583	1.00	106.64	6
ATOM	16102	CD	GLU	G	925	55.066	69.323	69.084	1.00	109.07	6
ATOM	16103	OE1	GLU	G	925	55.571					

ATOM	16120	CG2	THR	G	927	50.442	77.990	67.665	1.00	38.50	6
ATOM	16121	C	THR	G	927	49.013	75.589	67.359	1.00	33.69	6
ATOM	16122	O	THR	G	927	48.276	76.449	66.882	1.00	35.63	8
ATOM	16123	N	ALA	G	928	49.209	74.416	66.767	1.00	47.73	7
ATOM	16124	CA	ALA	G	928	48.528	74.091	65.514	1.00	46.88	6
ATOM	16125	CB	ALA	G	928	49.274	73.001	64.762	1.00	46.71	6
ATOM	16126	C	ALA	G	928	47.109	73.622	65.837	1.00	47.00	6
ATOM	16127	O	ALA	G	928	46.167	73.939	65.108	1.00	46.91	8
ATOM	16128	N	ARG	G	929	46.967	72.861	66.927	1.00	30.29	7
ATOM	16129	CA	ARG	G	929	45.661	72.369	67.352	1.00	29.29	6
ATOM	16130	CB	ARG	G	929	45.733	71.723	68.738	1.00	75.51	6
ATOM	16131	CG	ARG	G	929	46.729	70.591	68.898	1.00	80.45	6
ATOM	16132	CD	ARG	G	929	46.268	69.314	68.217	1.00	85.22	6
ATOM	16133	NE	ARG	G	929	47.126	68.179	68.564	1.00	90.86	7
ATOM	16134	CZ	ARG	G	929	47.014	66.956	68.043	1.00	94.45	6
ATOM	16135	NH1	ARG	G	929	46.079	66.686	67.137	1.00	96.35	7
ATOM	16136	NH2	ARG	G	929	47.838	65.993	68.435	1.00	96.30	7
ATOM	16137	C	ARG	G	929	44.817	73.625	67.444	1.00	27.83	6
ATOM	16138	O	ARG	G	929	43.850	73.794	66.695	1.00	27.04	8
ATOM	16139	N	LEU	G	930	45.230	74.506	68.360	1.00	37.78	7
ATOM	16140	CA	LEU	G	930	44.580	75.786	68.633	1.00	36.08	6
ATOM	16141	CB	LEU	G	930	45.357	76.551	69.705	1.00	38.85	6
ATOM	16142	CG	LEU	G	930	45.170	78.075	69.729	1.00	39.94	6
ATOM	16143	CD1	LEU	G	930	43.713	78.447	69.969	1.00	40.31	6
ATOM	16144	CD2	LEU	G	930	46.067	78.661	70.807	1.00	39.71	6
ATOM	16145	C	LEU	G	930	44.438	76.664	67.397	1.00	34.88	6
ATOM	16146	O	LEU	G	930	43.421	77.348	67.234	1.00	35.31	8
ATOM	16147	N	LEU	G	931	45.456	76.663	66.537	1.00	17.30	7
ATOM	16148	CA	LEU	G	931	45.386	77.462	65.323	1.00	15.74	6
ATOM	16149	CB	LEU	G	931	46.662	77.328	64.496	1.00	19.22	6
ATOM	16150	CG	LEU	G	931	47.465	78.611	64.291	1.00	17.16	6
ATOM	16151	CD1	LEU	G	931	46.551	79.799	63.983	1.00	17.16	6
ATOM	16152	CD2	LEU	G	931	48.249	78.881	65.543	1.00	17.18	6
ATOM	16153	C	LEU	G	931	44.192	76.981	64.504	1.00	15.89	6
ATOM	16154	O	LEU	G	931	43.617	77.709	63.704	1.00	15.27	8
ATOM	16155	N	ASP	G	932	43.810	75.738	64.709	1.00	30.07	7
ATOM	16156	CA	ASP	G	932	42.679	75.221	63.981	1.00	30.84	6
ATOM	16157	CB	ASP	G	932	42.922	73.771	63.641	1.00	49.32	6
ATOM	16158	CG	ASP	G	932	43.517	73.623	62.288	1.00	49.58	6
ATOM	16159	OD1	ASP	G	932	42.754	73.822	61.324	1.00	50.23	8
ATOM	16160	OD2	ASP	G	932	44.731	73.343	62.183	1.00	49.48	8
ATOM	16161	C	ASP	G	932	41.415	75.384	64.784	1.00	30.57	6
ATOM	16162	O	ASP	G	932	40.408	75.881	64.272	1.00	29.68	8
ATOM	16163	N	ALA	G	933	41.470	74.958	66.041	1.00	16.72	7
ATOM	16164	CA	ALA	G	933	40.331	75.087	66.913	1.00	15.81	6
ATOM	16165	CB	ALA	G	933	40.772	75.071	68.354	1.00	13.87	6
ATOM	16166	C	ALA	G	933	39.754	76.435	66.547	1.00	17.01	6
ATOM	16167	O	ALA	G	933	38.594	76.536	66.156	1.00	18.18	8
ATOM	16168	N	LEU	G	934	40.580	77.473	66.630	1.00	47.76	7
ATOM	16169	CA	LEU	G	934	40.119	78.804	66.274	1.00	48.54	6
ATOM	16170	CB	LEU	G	934	41.274	79.789	66.331	1.00	26.43	6
ATOM	16171	CG	LEU	G	934	41.685	80.069	67.769	1.00	25.46	6
ATOM	16172	CD1	LEU	G	934	42.888	80.979	67.763	1.00	25.41	6
ATOM	16173	CD2	LEU	G	934	40.533	80.715	68.523	1.00	24.46	6
ATOM	16174	C	LEU	G	934	39.478	78.801	64.887	1.00	49.38	6
ATOM	16175	O	LEU	G	934	38.260	78.894	64.774	1.00	49.81	8

ATOM	16176	N	LYS	G	935	40.284	78.677	63.839	1.00	39.42	7
ATOM	16177	CA	LYS	G	935	39.746	78.649	62.489	1.00	40.39	6
ATOM	16178	CB	LYS	G	935	40.587	77.751	61.576	1.00	22.21	6
ATOM	16179	CG	LYS	G	935	40.052	77.705	60.134	1.00	20.96	6
ATOM	16180	CD	LYS	G	935	40.696	76.653	59.240	1.00	20.28	6
ATOM	16181	CE	LYS	G	935	40.313	75.241	59.641	1.00	22.50	6
ATOM	16182	NZ	LYS	G	935	41.007	74.250	58.779	1.00	21.34	7
ATOM	16183	C	LYS	G	935	38.305	78.135	62.469	1.00	41.82	6
ATOM	16184	O	LYS	G	935	37.363	78.926	62.391	1.00	43.19	8
ATOM	16185	N	TYR	G	936	38.135	76.816	62.555	1.00	41.92	7
ATOM	16186	CA	TYR	G	936	36.803	76.217	62.509	1.00	41.52	6
ATOM	16187	CB	TYR	G	936	36.797	74.858	63.205	1.00	38.50	6
ATOM	16188	CG	TYR	G	936	35.470	74.093	63.158	1.00	39.63	6
ATOM	16189	CD1	TYR	G	936	35.399	72.761	63.592	1.00	40.47	6
ATOM	16190	CE1	TYR	G	936	34.179	72.067	63.634	1.00	41.86	6
ATOM	16191	CD2	TYR	G	936	34.282	74.708	62.756	1.00	40.46	6
ATOM	16192	CE2	TYR	G	936	33.055	74.025	62.801	1.00	41.21	6
ATOM	16193	CZ	TYR	G	936	33.009	72.707	63.244	1.00	42.57	6
ATOM	16194	OH	TYR	G	936	31.795	72.046	63.337	1.00	42.34	8
ATOM	16195	C	TYR	G	936	35.749	77.110	63.127	1.00	40.80	6
ATOM	16196	O	TYR	G	936	34.841	77.575	62.440	1.00	40.35	8
ATOM	16197	N	TYR	G	937	35.869	77.355	64.422	1.00	31.70	7
ATOM	16198	CA	TYR	G	937	34.899	78.186	65.108	1.00	32.79	6
ATOM	16199	CB	TYR	G	937	35.287	78.315	66.566	1.00	25.49	6
ATOM	16200	CG	TYR	G	937	34.947	77.070	67.309	1.00	26.11	6
ATOM	16201	CD1	TYR	G	937	35.069	75.831	66.703	1.00	26.57	6
ATOM	16202	CE1	TYR	G	937	34.786	74.668	67.386	1.00	26.88	6
ATOM	16203	CD2	TYR	G	937	34.527	77.118	68.617	1.00	26.56	6
ATOM	16204	CE2	TYR	G	937	34.245	75.966	69.316	1.00	26.74	6
ATOM	16205	CZ	TYR	G	937	34.379	74.737	68.699	1.00	26.70	6
ATOM	16206	OH	TYR	G	937	34.132	73.577	69.417	1.00	27.27	8
ATOM	16207	C	TYR	G	937	34.697	79.555	64.489	1.00	33.93	6
ATOM	16208	O	TYR	G	937	33.597	79.870	64.029	1.00	33.73	8
ATOM	16209	N	GLY	G	938	35.747	80.369	64.473	1.00	35.73	7
ATOM	16210	CA	GLY	G	938	35.634	81.695	63.897	1.00	35.91	6
ATOM	16211	C	GLY	G	938	34.857	81.619	62.606	1.00	35.32	6
ATOM	16212	O	GLY	G	938	33.959	82.419	62.337	1.00	37.07	8
ATOM	16213	N	PHE	G	939	35.204	80.617	61.816	1.00	29.89	7
ATOM	16214	CA	PHE	G	939	34.564	80.386	60.537	1.00	29.60	6
ATOM	16215	CB	PHE	G	939						



ATOM	16232	CA	LEU	G	941	30.542	81.229	64.071	1.00	55.80	6
ATOM	16233	CB	LEU	G	941	31.481	81.684	65.169	1.00	17.59	6
ATOM	16234	CG	LEU	G	941	31.201	81.199	66.582	1.00	14.62	6
ATOM	16235	CD1	LEU	G	941	29.720	80.889	66.690	1.00	13.87	6
ATOM	16236	CD2	LEU	G	941	32.093	80.008	66.908	1.00	13.87	6
ATOM	16237	C	LEU	G	941	30.050	82.458	63.338	1.00	56.54	6
ATOM	16238	O	LEU	G	941	28.921	82.897	63.539	1.00	58.13	8
ATOM	16239	N	SER	G	942	30.912	83.031	62.507	1.00	38.22	7
ATOM	16240	CA	SER	G	942	30.550	84.221	61.754	1.00	36.17	6
ATOM	16241	CB	SER	G	942	31.767	84.747	60.976	1.00	15.75	6
ATOM	16242	OG	SER	G	942	32.160	83.849	59.956	1.00	13.87	8
ATOM	16243	C	SER	G	942	29.395	83.936	60.795	1.00	36.01	6
ATOM	16244	O	SER	G	942	28.696	84.851	60.371	1.00	36.77	8
ATOM	16245	N	THR	G	943	29.188	82.663	60.467	1.00	43.57	7
ATOM	16246	CA	THR	G	943	28.117	82.270	59.551	1.00	44.46	6
ATOM	16247	CB	THR	G	943	28.366	80.876	58.957	1.00	64.62	6
ATOM	16248	OG1	THR	G	943	29.587	80.890	58.211	1.00	68.58	8
ATOM	16249	CG2	THR	G	943	27.227	80.479	58.035	1.00	64.19	6
ATOM	16250	C	THR	G	943	26.754	82.262	60.226	1.00	43.28	6
ATOM	16251	O	THR	G	943	25.882	83.053	59.869	1.00	43.43	8
ATOM	16252	N	THR	G	944	26.568	81.356	61.183	1.00	35.33	7
ATOM	16253	CA	THR	G	944	25.310	81.262	61.907	1.00	33.37	6
ATOM	16254	CB	THR	G	944	25.474	80.478	63.197	1.00	16.49	6
ATOM	16255	OG1	THR	G	944	26.259	81.242	64.118	1.00	16.86	8
ATOM	16256	CG2	THR	G	944	26.162	79.181	62.935	1.00	15.53	6
ATOM	16257	C	THR	G	944	24.866	82.669	62.288	1.00	33.77	6
ATOM	16258	O	THR	G	944	23.706	83.047	62.105	1.00	34.79	8
ATOM	16259	N	SER	G	945	25.811	83.437	62.818	1.00	34.99	7
ATOM	16260	CA	SER	G	945	25.561	84.804	63.242	1.00	35.77	6
ATOM	16261	CB	SER	G	945	26.860	85.411	63.765	1.00	60.62	6
ATOM	16262	OG	SER	G	945	27.357	84.637	64.841	1.00	60.25	8
ATOM	16263	C	SER	G	945	24.973	85.660	62.120	1.00	35.50	6
ATOM	16264	O	SER	G	945	24.229	86.604	62.372	1.00	33.61	8
ATOM	16265	N	GLY	G	946	25.321	85.325	60.883	1.00	47.59	7
ATOM	16266	CA	GLY	G	946	24.804	86.044	59.727	1.00	47.53	6
ATOM	16267	C	GLY	G	946	24.998	87.548	59.675	1.00	47.26	6
ATOM	16268	O	GLY	G	946	24.105	88.305	60.060	1.00	47.50	8
ATOM	16269	N	ILE	G	947	26.148	87.984	59.169	1.00	13.87	7
ATOM	16270	CA	ILE	G	947	26.434	89.403	59.086	1.00	13.87	6
ATOM	16271	CB	ILE	G	947	27.708	89.782	59.957	1.00	16.32	6
ATOM	16272	CG2	ILE	G	947	27.835	88.882	61.166	1.00	13.93	6
ATOM	16273	CG1	ILE	G	947	28.995	89.609	59.166	1.00	19.05	6
ATOM	16274	CD1	ILE	G	947	29.408	90.836	58.371	1.00	22.06	6
ATOM	16275	C	ILE	G	947	26.649	89.771	57.628	1.00	13.87	6
ATOM	16276	O	ILE	G	947	27.322	89.053	56.927	1.00	13.87	8
ATOM	16277	N	ILE	G	948	26.069	90.876	57.175	1.00	18.81	7
ATOM	16278	CA	ILE	G	948	26.226	91.336	55.794	1.00	21.25	6
ATOM	16279	CB	ILE	G	948	24.972	91.133	54.955	1.00	69.85	6
ATOM	16280	CG2	ILE	G	948	24.818	89.694	54.598	1.00	73.01	6
ATOM	16281	CG1	ILE	G	948	23.763	91.669	55.709	1.00	73.14	6
ATOM	16282	CD1	ILE	G	948	23.483	90.985	57.045	1.00	75.70	6
ATOM	16283	C	ILE	G	948	26.475	92.825	55.814	1.00	21.28	6
ATOM	16284	O	ILE	G	948	26.707	93.388	56.876	1.00	21.54	8
ATOM	16285	N	THR	G	949	26.426	93.466	54.645	1.00	24.02	7
ATOM	16286	CA	THR	G	949	26.633	94.915	54.535	1.00	24.53	6
ATOM	16287	CB	THR	G	949	27.927	95.319	53.733	1.00	13.87	6

ATOM	16288	OG1	THR	G	949	29.050	95.405	54.612	1.00	13.87	8
ATOM	16289	CG2	THR	G	949	27.764	96.671	53.081	1.00	13.87	6
ATOM	16290	C	THR	G	949	25.465	95.354	53.730	1.00	27.51	6
ATOM	16291	O	THR	G	949	25.432	95.114	52.539	1.00	28.51	8
ATOM	16292	N	ILE	G	950	24.494	95.981	54.365	1.00	53.04	7
ATOM	16293	CA	ILE	G	950	23.344	96.437	53.612	1.00	57.03	6
ATOM	16294	CB	ILE	G	950	22.033	96.133	54.368	1.00	150.33	6
ATOM	16295	CG2	ILE	G	950	20.906	95.944	53.381	1.00	153.09	6
ATOM	16296	CG1	ILE	G	950	22.162	94.824	55.154	1.00	151.95	6
ATOM	16297	CD1	ILE	G	950	20.959	94.510	56.037	1.00	149.50	6
ATOM	16298	C	ILE	G	950	23.484	97.942	53.389	1.00	56.42	6
ATOM	16299	O	ILE	G	950	24.037	98.648	54.231	1.00	57.15	8
ATOM	16300	N	GLY	G	951	23.004	98.423	52.247	1.00	36.84	7
ATOM	16301	CA	GLY	G	951	23.088	99.842	51.941	1.00	38.12	6
ATOM	16302	C	GLY	G	951	23.001	100.685	53.194	1.00	39.04	6
ATOM	16303	O	GLY	G	951	23.877	101.516	53.451	1.00	37.91	8
ATOM	16304	N	ILE	G	952	21.946	100.459	53.980	1.00	40.65	7
ATOM	16305	CA	ILE	G	952	21.740	101.196	55.226	1.00	43.79	6
ATOM	16306	CB	ILE	G	952	20.234	101.313	55.632	1.00	54.20	6
ATOM	16307	CG2	ILE	G	952	20.125	102.006	56.989	1.00	54.70	6
ATOM	16308	CG1	ILE	G	952	19.436	102.094	54.569	1.00	54.49	6
ATOM	16309	CD1	ILE	G	952	17.998	102.431	54.970	1.00	53.89	6
ATOM	16310	C	ILE	G	952	22.469	100.499	56.351	1.00	46.09	6
ATOM	16311	O	ILE	G	952	23.253	101.126	57.055	1.00	47.02	8
ATOM	16312	N	ASP	G	953	22.196	99.205	56.522	1.00	66.77	7
ATOM	16313	CA	ASP	G	953	22.841	98.408	57.570	1.00	68.11	6
ATOM	16314	CB	ASP	G	953	22.499	96.923	57.408	1.00	67.00	6
ATOM	16315	CG	ASP	G	953	23.227	96.033	58.410	1.00	67.44	6
ATOM	16316	OD1	ASP	G	953	24.437	96.248	58.634	1.00	67.37	8
ATOM	16317	OD2	ASP	G	953	22.593	95.104	58.960	1.00	66.91	8
ATOM	16318	C	ASP	G	953	24.343	98.604	57.440	1.00	68.64	6
ATOM	16319	O	ASP	G	953	25.019	97.836	56.749	1.00	68.56	8
ATOM	16320	N	ALA	G	954	24.836	99.637	58.126	1.00	38.59	7
ATOM	16321	CA	ALA	G	954	26.237	100.046	58.125	1.00	37.99	6
ATOM	16322	CB	ALA	G	954	27.152	98.880	57.761	1.00	135.82	6
ATOM	16323	C	ALA	G	954	26.366	101.172	57.104	1.00	38.32	6
ATOM	16324	O	ALA	G	954	25.447	101.399	56.313	1.00	36.88	8
ATOM	16325	N	ALA	G	955	27.511	101.852	57.105	1.00	74.92	7
ATOM	16326	CA	ALA	G	955	27.727	102.989	56.217	1.00	77.22	6
ATOM	16327	CB	ALA	G	955	27.441	102.607	54.769	1.00	43.28	6
ATOM	16328	C	ALA	G	955	26.692	103.985	56.733	1.00	78.26	6
ATOM	16329	O	ALA	G	955	26.122	104.786	55.992	1.00	78.73	8
ATOM	16330	N	VAL	G	956	26.479	103.895	58.040	1.00	52.05	7
ATOM	16331	CA	VAL	G	956	25.515	104.681	58.789	1.00	53.27	6
ATOM	16332	CB	VAL	G	956	25.330	104.058	60.169	1.00	42.34	6
ATOM	16333	CG1	VAL	G	956	23.988	104.458	60.745	1.00	43.43	6
ATOM	16334	CG2	VAL	G	956	25.482	102.548	60.067	1.00	42.43	6
ATOM	16335	C	VAL	G	956	25.865	106.144	58.981	1.00	54.00	6
ATOM	16336	O	VAL	G	956	26.384	106.528	60.026	1.00	54.46	8
ATOM	16337	N	ILE	G	957	25.548	106.964	57.989	1.00	56.68	7
ATOM	16338	CA	ILE	G	957	25.838	108.390	58.056	1.00	56.95	6
ATOM	16339	CB	ILE	G	957	25.282	109.101	56.815	1.00	58.57	6
ATOM	16340	CG2	ILE	G	957	25.523	110.599	56.928	1.00	59.02	6
ATOM	16341	CG1	ILE	G	957	25.932	108.512	55.559	1.00	59.51	6
ATOM	16342	CD1	ILE	G	957	25.338	108.989	54.262	1.00	60.62	6
ATOM	16343	C	ILE	G	957	25.268	109.057	59.311	1.00	56.81	6

ATOM	16344	O	ILE	G	957	24.055	109.115	59.496	1.00	56.77	8
ATOM	16345	N	PRO	G	958	26.141	109.581	60.189	1.00	47.27	7
ATOM	16346	CD	PRO	G	958	27.599	109.730	60.058	1.00	33.40	6
ATOM	16347	CA	PRO	G	958	25.676	110.235	61.412	1.00	48.03	6
ATOM	16348	CB	PRO	G	958	26.973	110.541	62.142	1.00	33.66	6
ATOM	16349	CG	PRO	G	958	27.899	110.835	61.038	1.00	33.26	6
ATOM	16350	C	PRO	G	958	24.902	111.493	61.086	1.00	49.11	6
ATOM	16351	O	PRO	G	958	25.359	112.318	60.301	1.00	49.29	8
ATOM	16352	N	GLU	G	959	23.728	111.637	61.687	1.00	80.84	7
ATOM	16353	CA	GLU	G	959	22.896	112.809	61.449	1.00	81.89	6
ATOM	16354	CB	GLU	G	959	21.656	112.767	62.351	1.00	181.19	6
ATOM	16355	CG	GLU	G	959	20.520	113.714	61.951	1.00	183.33	6
ATOM	16356	CD	GLU	G	959	19.508	113.074	61.008	1.00	184.49	6
ATOM	16357	OE1	GLU	G	959	18.931	112.027	61.377	1.00	186.10	8
ATOM	16358	OE2	GLU	G	959	19.283	113.619	59.905	1.00	183.83	8
ATOM	16359	C	GLU	G	959	23.740	114.035	61.780	1.00	81.69	6
ATOM	16360	O	GLU	G	959	23.623	115.083	61.140	1.00	81.67	8
ATOM	16361	N	GLU	G	960	24.614	113.875	62.769	1.00	48.75	7
ATOM	16362	CA	GLU	G	960	25.483	114.956	63.219	1.00	49.26	6
ATOM	16363	CB	GLU	G	960	26.228	114.532	64.484	1.00	98.69	6
ATOM	16364	CG	GLU	G	960	27.176	113.381	64.287	1.00	99.78	6
ATOM	16365	CD	GLU	G	960	27.496	112.681	65.590	1.00	101.03	6
ATOM	16366	OE1	GLU	G	960	26.606	111.979	66.123	1.00	101.73	8
ATOM	16367	OE2	GLU	G	960	28.633	112.837	66.085	1.00	101.81	8
ATOM	16368	C	GLU	G	960	26.481	115.461	62.181	1.00	49.10	6
ATOM	16369	O	GLU	G	960	27.436	116.156	62.520	1.00	47.79	8
ATOM	16370	N	LYS	G	961	26.268	115.111	60.918	1.00	89.18	7
ATOM	16371	CA	LYS	G	961	27.166	115.575	59.873	1.00	89.46	6
ATOM	16372	CB	LYS	G	961	26.993	114.759	58.590	1.00	47.41	6
ATOM	16373	CG	LYS	G	961	27.998	115.100	57.494	1.00	47.64	6
ATOM	16374	CD	LYS	G	961	27.741	114.268	56.242	1.00	48.85	6
ATOM	16375	CE	LYS	G	961	28.752	114.571	55.139	1.00	49.40	6
ATOM	16376	NZ	LYS	G	961	28.469	113.812	53.887	1.00	50.10	7
ATOM	16377	C	LYS	G	961	26.774	117.008	59.618	1.00	89.33	6
ATOM	16378	O	LYS	G	961	27.611	117.904	59.671	1.00	89.78	8
ATOM	16379	N	GLN	G	962	25.486	117.210	59.358	1.00	66.44	7
ATOM	16380	CA	GLN	G	962	24.965	118.539	59.092	1.00	66.75	6
ATOM	16381	CB	GLN	G	962	23.451	118.586	59.306	1.00	95.35	6
ATOM	16382	CG	GLN	G	962	22.644	117.716	58.349	1.00	96.68	6
ATOM	16383	CD	GLN	G	962	21.161	118.076	58.341	1.00	97.30	6
ATOM	16384	OE1	GLN	G	962	20.776	119.133	57.847	1.00	96.62	8
ATOM	16385	NE2	GLN	G	962	20.326	117.199	58.896	1.00	97.91	7
ATOM	16386	C	GLN	G	962	25.655	119.536	60.016	1.00	66.49	6
ATOM	16387	O	GLN	G	962	26.519	120.282	59.571	1.00	65.94	8
ATOM	16388	N	ARG	G	963	25.291	119.542	61.296	1.00	71.70	7
ATOM	16389	CA	ARG	G	963	25.919	120.461	62.247	1.00	71.44	6
ATOM	16390	CB	ARG	G	963	25.975	119.837	63.659	1.00	61.60	6
ATOM	16391	CG	ARG	G	963	27.036	120.428	64.608	1.00	60.57	6
ATOM	16392	CD	ARG	G	963	27.098	119.665	65.944	1.00	61.13	6
ATOM	16393	NE	ARG	G	963	28.468	119.499	66.441	1.00	61.92	7
ATOM	16394	CZ	ARG	G	963	28.787	118.963	67.621	1.00	62.68	6
ATOM	16395	NH1	ARG	G	963	27.838	118.539	68.444	1.00	63.19	7
ATOM	16396	NH2	ARG	G	963	30.059	118.843	67.980	1.00	61.97	7
ATOM	16397	C	ARG	G	963	27.322	120.806	61.752	1.00	71.22	6
ATOM	16398	O	ARG	G	963	27.583	121.953	61.424	1.00	71.34	8
ATOM	16399	N	TYR	G	964	28.206	119.811	61.656	1.00	107.91	7

ATOM	16400	CA	TYR	G	964	29.577	120.052	61.192	1.00106.93	6
ATOM	16401	CB	TYR	G	964	30.375	118.751	61.153	1.00 68.73	6
ATOM	16402	CG	TYR	G	964	30.577	118.109	62.503	1.00 68.38	6
ATOM	16403	CD1	TYR	G	964	29.520	117.488	63.157	1.00 68.40	6
ATOM	16404	CE1	TYR	G	964	29.697	116.859	64.383	1.00 68.74	6
ATOM	16405	CD2	TYR	G	964	31.833	118.095	63.113	1.00 68.22	6
ATOM	16406	CE2	TYR	G	964	32.027	117.468	64.342	1.00 68.53	6
ATOM	16407	CZ	TYR	G	964	30.952	116.849	64.971	1.00 69.16	6
ATOM	16408	OH	TYR	G	964	31.125	116.207	66.176	1.00 69.81	8
ATOM	16409	C	TYR	G	964	29.600	120.706	59.814	1.00106.42	6
ATOM	16410	O	TYR	G	964	30.171	121.786	59.644	1.00106.89	8
ATOM	16411	N	LEU	G	965	28.997	120.044	58.828	1.00 84.86	7
ATOM	16412	CA	LEU	G	965	28.916	120.599	57.480	1.00 84.27	6
ATOM	16413	CB	LEU	G	965	28.087	119.682	56.579	1.00 49.14	6
ATOM	16414	CG	LEU	G	965	28.766	119.012	55.383	1.00 47.71	6
ATOM	16415	CD1	LEU	G	965	28.853	119.988	54.234	1.00 47.32	6
ATOM	16416	CD2	LEU	G	965	30.144	118.507	55.786	1.00 47.30	6
ATOM	16417	C	LEU	G	965	28.184	121.911	57.706	1.00 84.16	6
ATOM	16418	O	LEU	G	965	27.655	122.127	58.795	1.00 84.72	8
ATOM	16419	N	GLU	G	966	28.128	122.784	56.708	1.00 42.27	7
ATOM	16420	CA	GLU	G	966	27.445	124.070	56.904	1.00 42.38	6
ATOM	16421	CB	GLU	G	966	25.981	123.871	57.303	1.00 91.78	6
ATOM	16422	CG	GLU	G	966	25.298	125.180	57.596	1.00 94.62	6
ATOM	16423	CD	GLU	G	966	25.716	126.263	56.616	1.00 96.45	6
ATOM	16424	OE1	GLU	G	966	25.489	126.086	55.401	1.00 97.78	8
ATOM	16425	OE2	GLU	G	966	26.279	127.285	57.058	1.00 97.51	8
ATOM	16426	C	GLU	G	966	28.160	124.889	57.979	1.00 41.33	6
ATOM	16427	O	GLU	G	966	28.475	126.045	57.757	1.00 40.16	8
ATOM	16428	N	GLU	G	967	28.377	124.313	59.158	1.00 36.77	7
ATOM	16429	CA	GLU	G	967	29.135	125.021	60.166	1.00 35.92	6
ATOM	16430	CB	GLU	G	967	29.340	124.181	61.421	1.00 51.25	6
ATOM	16431	CG	GLU	G	967	28.196	124.274	62.402	1.00 51.43	6
ATOM	16432	CD	GLU	G	967	28.528	123.686	63.756	1.00 51.72	6
ATOM	16433	OE1	GLU	G	967	29.613	123.083	63.915	1.00 51.54	8
ATOM	16434	OE2	GLU	G	967	27.693	123.828	64.670	1.00 53.39	8
ATOM	16435	C	GLU	G	967	30.454	125.196	59.435	1.00 35.75	6
ATOM	16436	O	GLU	G	967	31.121	126.227	59.534	1.00 35.02	8
ATOM	16437	N	ALA	G	968	30.820	124.170	58.679	1.00 38.97	7
ATOM	16438	CA	ALA	G	968	32.030	124.236	57.885	1.00 40.14	6
ATOM	16439	CB	ALA	G	968	32.121	123.028	56.962	1.00 96.20	6
ATOM	16440	C	ALA	G	968	31.848	125.509	57.073	1.00 41.00	6
ATOM	16441	O	ALA	G	968	32.798	126.254	56.836	1.00 40.00	8
ATOM	16442	N	ASP	G	969	30.600	125.746	56.670	1.00 59.01	7
ATOM	16443	CA	ASP	G	969	30.232	126.922	55.888	1.00 61.20	6
ATOM	16444	CB	ASP	G	969	28.871	126.725	55.210	1.00 93.07	6
ATOM	16445	CG	ASP	G	969	28.984	125.999	53.892	1.00 95.50	6
ATOM	16446	OD1	ASP	G	969	29.627	126.548	52.971	1.00 96.94	8
ATOM	16447	OD2	ASP	G	969	28.437	124.882	53.776	1.00 97.48	8
ATOM	16448	C	ASP	G	969	30.204	128.185	56.737	1.00 61.41	6
ATOM	16449	O	ASP	G	969	31.253	128.742	56.997	1.00 60.85	8
ATOM	16450	N	ARG	G	970	29.016	128.612	57.175	1.00 70.79	7
ATOM	16451	CA	ARG	G	970	28.854	129.832	57.968	1.00 70.46	6
ATOM	16452	CB	ARG	G	970	28.246	129.543	59.355	1.00 74.41	6
ATOM	16453	CG	ARG	G	970	29.233	129.035	60.404	1.00 76.46	6
ATOM	16454	CD	ARG	G	970	28.655	128.957	61.822	1.00 76.91	6
ATOM	16455	NE	ARG	G	970	29.668	128.497	62.779	1.00 77.99	7

ATOM	16456	CZ	ARG	G	970	29.459	128.318	64.081	1.00	79.41	6
ATOM	16457	NH1	ARG	G	970	28.268	128.559	64.617	1.00	79.74	7
ATOM	16458	NH2	ARG	G	970	30.448	127.892	64.852	1.00	79.74	7
ATOM	16459	C	ARG	G	970	30.197	130.524	58.117	1.00	70.09	6
ATOM	16460	O	ARG	G	970	30.385	131.605	57.574	1.00	71.11	8
ATOM	16461	N	LYS	G	971	31.133	129.881	58.822	1.00	36.18	7
ATOM	16462	CA	LYS	G	971	32.486	130.413	59.046	1.00	36.61	6
ATOM	16463	CB	LYS	G	971	33.105	129.788	60.301	1.00	73.91	6
ATOM	16464	CG	LYS	G	971	32.341	130.102	61.587	1.00	75.60	6
ATOM	16465	CD	LYS	G	971	33.044	129.546	62.813	1.00	75.54	6
ATOM	16466	CE	LYS	G	971	32.385	130.050	64.079	1.00	76.02	6
ATOM	16467	NZ	LYS	G	971	33.199	129.734	65.278	1.00	75.83	7
ATOM	16468	C	LYS	G	971	33.402	130.175	57.846	1.00	36.88	6
ATOM	16469	O	LYS	G	971	34.606	129.955	57.994	1.00	35.74	8
ATOM	16470	N	LEU	G	972	32.789	130.232	56.663	1.00	61.28	7
ATOM	16471	CA	LEU	G	972	33.442	130.060	55.367	1.00	61.61	6
ATOM	16472	CB	LEU	G	972	32.740	128.959	54.562	1.00	79.55	6
ATOM	16473	CG	LEU	G	972	33.582	127.909	53.825	1.00	79.97	6
ATOM	16474	CD1	LEU	G	972	32.643	126.972	53.087	1.00	79.85	6
ATOM	16475	CD2	LEU	G	972	34.552	128.566	52.853	1.00	79.58	6
ATOM	16476	C	LEU	G	972	33.258	131.411	54.667	1.00	61.34	6
ATOM	16477	O	LEU	G	972	34.223	132.037	54.227	1.00	60.98	8
ATOM	16478	N	ARG	G	973	32.007	131.852	54.561	1.00	56.08	7
ATOM	16479	CA	ARG	G	973	31.716	133.152	53.967	1.00	56.75	6
ATOM	16480	CB	ARG	G	973	30.212	133.408	53.922	1.00	102.76	6
ATOM	16481	CG	ARG	G	973	29.465	132.463	53.019	1.00	103.34	6
ATOM	16482	CD	ARG	G	973	27.964	132.679	53.099	1.00	104.23	6
ATOM	16483	NE	ARG	G	973	27.265	131.758	52.207	1.00	106.13	7
ATOM	16484	CZ	ARG	G	973	25.945	131.673	52.096	1.00	106.52	6
ATOM	16485	NH1	ARG	G	973	25.165	132.461	52.826	1.00	107.03	7
ATOM	16486	NH2	ARG	G	973	25.407	130.794	51.258	1.00	107.13	7
ATOM	16487	C	ARG	G	973	32.372	134.132	54.917	1.00	56.49	6
ATOM	16488	O	ARG	G	973	32.635	135.269	54.582	1.00	56.40	8
ATOM	16489	N	GLN	G	974	32.616	133.671	56.130	1.00	49.87	7
ATOM	16490	CA	GLN	G	974	33.283	134.491	57.108	1.00	50.68	6
ATOM	16491	CB	GLN	G	974	33.125	133.904	58.515	1.00	69.44	6
ATOM	16492	CG	GLN	G	974	31.747	134.139	59.138	1.00	69.56	6
ATOM	16493	CD	GLN	G	974	31.676	133.683	60.586	1.00	69.08	6
ATOM	16494	OE1	GLN	G	974	32.574	133.960	61.380	1.00	68.22	8
ATOM	16495	NE2	GLN	G	974	30.596	132.994	60.937	1.00	69.06	7
ATOM	16496	C	GLN	G	974	34.746	134.489	56.704	1.00	51.23	6
ATOM	16497	O	GLN	G	974	35.567	135.157	57.316	1.00	51.28	8
ATOM	16498	N	ILE	G	975	35.070	133.725	55.668	1.00	73.01	7
ATOM	16499	CA	ILE	G	975	36.442	133.648	55.195	1.00	74.05	6
ATOM	16500	CB	ILE	G	975	36.955	132.174	55.138	1.00	66.18	6
ATOM	16501	CG2	ILE	G	975	36.995	131.660	53.695	1.00	66.25	6
ATOM	16502	CG1	ILE	G	975	38.344	132.084	55.778	1.00	66.26	6
ATOM	16503	CD1	ILE	G	975	39.334	133.106	55.269	1.00	67.69	6
ATOM	16504	C	ILE	G	975	36.515	134.263	53.816	1.00	74.60	6
ATOM	16505	O	ILE	G	975	37.445	135.009	53.520	1.00	75.05	8
ATOM	16506	N	GLU	G	976	35.526	133.953	52.978	1.00	60.49	7
ATOM	16507	CA	GLU	G	976	35.482	134.483	51.617	1.00	61.71	6
ATOM	16508	CB	GLU	G	976	34.583	133.621	50.718	1.00	114.33	6
ATOM	16509	CG	GLU	G	976	34.937	132.127	50.690	1.00	115.06	6
ATOM	16510	CD	GLU	G	976	34.323	131.381	49.501	1.00	114.53	6
ATOM	16511	OE1	GLU	G	976	33.257	131.803	49.002	1.00	113.15	8

ATOM	16512	OE2	GLU	G	976	34.905	130.361	49.073	1.00114.48	8
ATOM	16513	C	GLU	G	976	34.979	135.926	51.627	1.00 61.73	6
ATOM	16514	O	GLU	G	976	34.806	136.539	50.575	1.00 61.75	8
ATOM	16515	N	GLN	G	977	34.735	136.449	52.828	1.00 89.50	7
ATOM	16516	CA	GLN	G	977	34.290	137.829	53.032	1.00 89.42	6
ATOM	16517	CB	GLN	G	977	32.946	137.878	53.767	1.00129.61	6
ATOM	16518	CG	GLN	G	977	31.729	137.620	52.876	1.00131.76	6
ATOM	16519	CD	GLN	G	977	31.061	138.901	52.404	1.00132.90	6
ATOM	16520	OE1	GLN	G	977	31.715	139.799	51.877	1.00134.36	8
ATOM	16521	NE2	GLN	G	977	29.749	138.988	52.591	1.00133.24	7
ATOM	16522	C	GLN	G	977	35.369	138.483	53.877	1.00 88.52	6
ATOM	16523	O	GLN	G	977	35.669	139.661	53.716	1.00 89.61	8
ATOM	16524	N	ALA	G	978	35.950	137.693	54.777	1.00 53.12	7
ATOM	16525	CA	ALA	G	978	37.041	138.147	55.636	1.00 50.88	6
ATOM	16526	CB	ALA	G	978	37.266	137.167	56.776	1.00 47.24	6
ATOM	16527	C	ALA	G	978	38.292	138.220	54.765	1.00 49.52	6
ATOM	16528	O	ALA	G	978	39.414	137.974	55.220	1.00 48.83	8
ATOM	16529	N	TYR	G	979	38.063	138.537	53.497	1.00 43.07	7
ATOM	16530	CA	TYR	G	979	39.110	138.674	52.503	1.00 42.64	6
ATOM	16531	CB	TYR	G	979	39.216	137.416	51.629	1.00 64.45	6
ATOM	16532	CG	TYR	G	979	40.275	137.502	50.543	1.00 63.51	6
ATOM	16533	CD1	TYR	G	979	41.590	137.845	50.854	1.00 62.98	6
ATOM	16534	CE1	TYR	G	979	42.562	137.945	49.862	1.00 64.04	6
ATOM	16535	CD2	TYR	G	979	39.955	137.255	49.203	1.00 63.09	6
ATOM	16536	CE2	TYR	G	979	40.922	137.353	48.196	1.00 63.46	6
ATOM	16537	CZ	TYR	G	979	42.227	137.703	48.533	1.00 64.43	6
ATOM	16538	OH	TYR	G	979	43.195	137.845	47.552	1.00 65.47	8
ATOM	16539	C	TYR	G	979	38.681	139.850	51.662	1.00 42.30	6
ATOM	16540	O	TYR	G	979	39.494	140.685	51.296	1.00 41.61	8
ATOM	16541	N	GLU	G	980	37.392	139.920	51.357	1.00 48.04	7
ATOM	16542	CA	GLU	G	980	36.884	141.034	50.572	1.00 48.99	6
ATOM	16543	CB	GLU	G	980	35.416	140.810	50.204	1.00 54.42	6
ATOM	16544	CG	GLU	G	980	35.198	139.531	49.407	1.00 54.26	6
ATOM	16545	CD	GLU	G	980	33.750	139.310	49.018	1.00 54.22	6
ATOM	16546	OE1	GLU	G	980	32.893	139.196	49.922	1.00 52.78	8
ATOM	16547	OE2	GLU	G	980	33.471	139.246	47.798	1.00 54.74	8
ATOM	16548	C	GLU	G	980	37.041	142.233	51.487	1.00 49.98	6
ATOM	16549	O	GLU	G	980	36.668	143.353	51.140	1.00 50.15	8
ATOM	16550	N	MET	G	981	37.610	141.957	52.662	1.00 58.41	7
ATOM	16551	CA	MET	G	981	37.885	142.941	53.703	1.00 59.37	6
ATOM	16552	CB	MET	G	981	37.512	142.382	55.068	1.00 62.35	6
ATOM	16553	CG	MET	G	981	36.037	142.107	55.230	1.00 61.41	6
ATOM	16554	SD	MET	G	981	35.134	143.533	55.807	1.00 61.27	16
ATOM	16555	CE	MET	G	981	35.630	143.514	57.569	1.00 60.29	6
ATOM	16556	C	MET	G	981	39.372	143.239	53.701	1.00 60.67	6
ATOM	16557	O	MET	G	981	40.118	142.720	52.871	1.00 60.62	8
ATOM	16558	N	GLY	G	982	39.810	144.061	54.646	1.00136.85	7
ATOM	16559	CA	GLY	G	982	41.218	144.399	54.709	1.00138.53	6
ATOM	16560	C	GLY	G	982	42.059	143.340	55.397	1.00138.70	6
ATOM	16561	O	GLY	G	982	43.288	143.446	55.429	1.00138.31	8
ATOM	16562	N	PHE	G	983	41.409	142.312	55.938	1.00 99.07	7
ATOM	16563	CA	PHE	G	983	42.136	141.262	56.643	1.00 99.25	6
ATOM	16564	CB	PHE	G	983	41.452	140.950	57.985	1.00106.86	6
ATOM	16565	CG	PHE	G	983	41.470	142.111	58.938	1.00107.86	6
ATOM	16566	CD1	PHE	G	983	40.489	143.094	58.871	1.00107.70	6
ATOM	16567	CD2	PHE	G	983	42.538	142.292	59.815	1.00108.55	6

ATOM	16568	CE1	PHE	G	983	40.579	144.250	59.657	1.00109.68	6
ATOM	16569	CE2	PHE	G	983	42.638	143.442	60.604	1.00109.22	6
ATOM	16570	CZ	PHE	G	983	41.658	144.424	60.523	1.00110.07	6
ATOM	16571	C	PHE	G	983	42.380	139.986	55.855	1.00 98.41	6
ATOM	16572	O	PHE	G	983	41.688	139.679	54.881	1.00 97.87	8
ATOM	16573	N	LEU	G	984	43.396	139.257	56.300	1.00 74.49	7
ATOM	16574	CA	LEU	G	984	43.804	138.017	55.672	1.00 73.90	6
ATOM	16575	CB	LEU	G	984	42.699	136.975	55.747	1.00 35.43	6
ATOM	16576	CG	LEU	G	984	42.688	136.148	57.024	1.00 35.39	6
ATOM	16577	CD1	LEU	G	984	42.017	134.808	56.735	1.00 35.23	6
ATOM	16578	CD2	LEU	G	984	44.120	135.934	57.503	1.00 35.06	6
ATOM	16579	C	LEU	G	984	44.224	138.187	54.227	1.00 74.50	6
ATOM	16580	O	LEU	G	984	43.541	138.837	53.425	1.00 74.35	8
ATOM	16581	N	THR	G	985	45.358	137.571	53.918	1.00103.35	7
ATOM	16582	CA	THR	G	985	45.956	137.592	52.595	1.00102.52	6
ATOM	16583	CB	THR	G	985	47.474	137.619	52.718	1.00 63.64	6
ATOM	16584	OG1	THR	G	985	48.058	137.154	51.497	1.00 63.76	8
ATOM	16585	CG2	THR	G	985	47.926	136.727	53.876	1.00 62.10	6
ATOM	16586	C	THR	G	985	45.562	136.333	51.842	1.00103.15	6
ATOM	16587	O	THR	G	985	45.472	135.267	52.441	1.00104.38	8
ATOM	16588	N	ASP	G	986	45.336	136.446	50.535	1.00 40.12	7
ATOM	16589	CA	ASP	G	986	44.954	135.283	49.725	1.00 40.26	6
ATOM	16590	CB	ASP	G	986	45.248	135.544	48.237	1.00 48.74	6
ATOM	16591	CG	ASP	G	986	44.947	134.333	47.349	1.00 48.21	6
ATOM	16592	OD1	ASP	G	986	45.667	133.316	47.456	1.00 48.01	8
ATOM	16593	OD2	ASP	G	986	43.992	134.397	46.542	1.00 46.65	8
ATOM	16594	C	ASP	G	986	45.682	134.017	50.191	1.00 40.96	6
ATOM	16595	O	ASP	G	986	45.047	133.019	50.526	1.00 40.37	8
ATOM	16596	N	ARG	G	987	47.012	134.076	50.212	1.00 72.46	7
ATOM	16597	CA	ARG	G	987	47.844	132.958	50.652	1.00 73.44	6
ATOM	16598	CB	ARG	G	987	49.291	133.435	50.835	1.00162.20	6
ATOM	16599	CG	ARG	G	987	50.253	132.405	51.421	1.00164.64	6
ATOM	16600	CD	ARG	G	987	51.667	132.980	51.530	1.00167.31	6
ATOM	16601	NE	ARG	G	987	52.593	132.073	52.206	1.00169.35	7
ATOM	16602	CZ	ARG	G	987	53.890	132.315	52.379	1.00169.89	6
ATOM	16603	NH1	ARG	G	987	54.429	133.441	51.926	1.00169.74	7
ATOM	16604	NH2	ARG	G	987	54.652	131.432	53.011	1.00170.59	7
ATOM	16605	C	ARG	G	987	47.308	132.389	51.966	1.00 73.13	6
ATOM	16606	O	ARG	G	987	46.797	131.272	52.007	1.00 73.67	8
ATOM	16607	N	GLU	G	988	47.420	133.165	53.039	1.00 64.26	7
ATOM	16608	CA	GLU	G	988	46.942	132.730	54.346	1.00 64.14	6
ATOM	16609	CB	GLU	G	988	47.285	133.772	55.412	1.00196.85	6
ATOM	16610	CG	GLU	G	988	48.776	134.040	55.546	1.00201.74	6
ATOM	16611	CD	GLU	G	988	49.588	132.763	55.682	1.00203.98	6
ATOM	16612	OE1	GLU	G	988	49.299	131.963	56.599	1.00205.25	8
ATOM	16613	OE2	GLU	G	988	50.521	132.560	54.874	1.00204.76	8
ATOM	16614	C	GLU	G	988	45.442	132.497	54.318	1.00 62.52	6
ATOM	16615	O	GLU	G	988	44.895	131.794	55.160	1.00 62.41	8
ATOM	16616	N	ARG	G	989	44.776	133.101	53.346	1.00 50.18	7
ATOM	16617	CA	ARG	G	989	43.343	132.938	53.216	1.00 48.71	6
ATOM	16618	CB	ARG	G	989	42.800	133.827	52.107	1.00 78.53	6
ATOM	16619	CG	ARG	G	989	41.412	133.452	51.682	1.00 79.47	6
ATOM	16620	CD	ARG	G	989	40.959	134.300	50.526	1.00 80.65	6
ATOM	16621	NE	ARG	G	989	39.707	133.797	49.983	1.00 81.51	7
ATOM	16622	CZ	ARG	G	989	39.588	132.627	49.372	1.00 82.43	6
ATOM	16623	NH1	ARG	G	989	40.650	131.839	49.221	1.00 82.82	7

ATOM	16624	NH2	ARG	G	989	38.403	132.244	48.920	1.00	83.11	7
ATOM	16625	C	ARG	G	989	43.125	131.487	52.863	1.00	47.79	6
ATOM	16626	O	ARG	G	989	42.602	130.728	53.661	1.00	46.81	8
ATOM	16627	N	TYR	G	990	43.524	131.106	51.657	1.00	100.39	7
ATOM	16628	CA	TYR	G	990	43.388	129.723	51.230	1.00	99.27	6
ATOM	16629	CB	TYR	G	990	44.283	129.459	50.021	1.00	48.00	6
ATOM	16630	CG	TYR	G	990	44.767	128.030	49.903	1.00	47.49	6
ATOM	16631	CD1	TYR	G	990	44.056	127.088	49.159	1.00	46.75	6
ATOM	16632	CE1	TYR	G	990	44.493	125.777	49.058	1.00	46.56	6
ATOM	16633	CD2	TYR	G	990	45.934	127.620	50.548	1.00	47.38	6
ATOM	16634	CE2	TYR	G	990	46.379	126.315	50.458	1.00	47.53	6
ATOM	16635	CZ	TYR	G	990	45.656	125.397	49.711	1.00	46.98	6
ATOM	16636	OH	TYR	G	990	46.099	124.098	49.619	1.00	48.16	8
ATOM	16637	C	TYR	G	990	43.809	128.823	52.386	1.00	99.19	6
ATOM	16638	O	TYR	G	990	43.080	127.907	52.763	1.00	100.55	8
ATOM	16639	N	ASP	G	991	44.985	129.097	52.948	1.00	45.47	7
ATOM	16640	CA	ASP	G	991	45.508	128.315	54.061	1.00	44.34	6
ATOM	16641	CB	ASP	G	991	46.802	128.933	54.558	1.00	71.37	6
ATOM	16642	CG	ASP	G	991	47.986	128.454	53.783	1.00	71.72	6
ATOM	16643	OD1	ASP	G	991	47.813	128.194	52.572	1.00	71.11	8
ATOM	16644	OD2	ASP	G	991	49.081	128.339	54.378	1.00	70.92	8
ATOM	16645	C	ASP	G	991	44.535	128.154	55.224	1.00	43.77	6
ATOM	16646	O	ASP	G	991	44.849	127.505	56.224	1.00	44.24	8
ATOM	16647	N	GLN	G	992	43.360	128.761	55.090	1.00	67.50	7
ATOM	16648	CA	GLN	G	992	42.311	128.673	56.097	1.00	66.59	6
ATOM	16649	CB	GLN	G	992	41.524	129.984	56.175	1.00	87.39	6
ATOM	16650	CG	GLN	G	992	40.962	130.293	57.541	1.00	88.50	6
ATOM	16651	CD	GLN	G	992	42.054	130.476	58.579	1.00	89.39	6
ATOM	16652	OE1	GLN	G	992	42.940	131.318	58.427	1.00	89.27	8
ATOM	16653	NE2	GLN	G	992	41.994	129.685	59.641	1.00	90.51	7
ATOM	16654	C	GLN	G	992	41.417	127.576	55.561	1.00	64.89	6
ATOM	16655	O	GLN	G	992	41.330	126.498	56.142	1.00	64.31	8
ATOM	16656	N	VAL	G	993	40.788	127.867	54.422	1.00	41.54	7
ATOM	16657	CA	VAL	G	993	39.888	126.945	53.728	1.00	39.16	6
ATOM	16658	CB	VAL	G	993	39.761	127.310	52.241	1.00	93.99	6
ATOM	16659	CG1	VAL	G	993	38.581	126.573	51.626	1.00	96.58	6
ATOM	16660	CG2	VAL	G	993	39.609	128.816	52.088	1.00	94.44	6
ATOM	16661	C	VAL	G	993	40.393	125.512	53.816	1.00	36.63	6
ATOM	16662	O	VAL	G	993	39.606	124.561	53.844	1.00	35.42	8
ATOM	16663										



ATOM	16680	N	LEU	G	996	40.481	124.604	57.578	1.00	44.32	7
ATOM	16681	CA	LEU	G	996	39.064	124.428	57.865	1.00	41.61	6
ATOM	16682	CB	LEU	G	996	38.231	125.439	57.073	1.00	13.87	6
ATOM	16683	CG	LEU	G	996	36.718	125.255	57.122	1.00	13.87	6
ATOM	16684	CD1	LEU	G	996	36.220	125.289	58.562	1.00	13.87	6
ATOM	16685	CD2	LEU	G	996	36.077	126.339	56.290	1.00	13.87	6
ATOM	16686	C	LEU	G	996	38.646	123.016	57.480	1.00	40.91	6
ATOM	16687	O	LEU	G	996	38.664	122.109	58.309	1.00	40.33	8
ATOM	16688	N	TRP	G	997	38.292	122.835	56.210	1.00	41.58	7
ATOM	16689	CA	TRP	G	997	37.853	121.541	55.737	1.00	40.97	6
ATOM	16690	CB	TRP	G	997	37.819	121.512	54.211	1.00	27.79	6
ATOM	16691	CG	TRP	G	997	36.620	122.245	53.646	1.00	24.48	6
ATOM	16692	CD2	TRP	G	997	35.239	121.896	53.826	1.00	23.12	6
ATOM	16693	CE2	TRP	G	997	34.470	122.860	53.135	1.00	22.07	6
ATOM	16694	CE3	TRP	G	997	34.576	120.859	54.504	1.00	23.69	6
ATOM	16695	CD1	TRP	G	997	36.626	123.377	52.874	1.00	22.58	6
ATOM	16696	NE1	TRP	G	997	35.340	123.751	52.564	1.00	21.39	7
ATOM	16697	CZ2	TRP	G	997	33.069	122.819	53.104	1.00	22.49	6
ATOM	16698	CZ3	TRP	G	997	33.176	120.817	54.474	1.00	23.06	6
ATOM	16699	CH2	TRP	G	997	32.443	121.792	53.777	1.00	23.23	6
ATOM	16700	C	TRP	G	997	38.703	120.414	56.283	1.00	43.11	6
ATOM	16701	O	TRP	G	997	38.178	119.360	56.630	1.00	44.67	8
ATOM	16702	N	THR	G	998	40.010	120.627	56.396	1.00	20.39	7
ATOM	16703	CA	THR	G	998	40.857	119.559	56.916	1.00	22.56	6
ATOM	16704	CB	THR	G	998	42.329	119.960	57.050	1.00	67.19	6
ATOM	16705	OG1	THR	G	998	42.854	120.323	55.767	1.00	69.15	8
ATOM	16706	CG2	THR	G	998	43.133	118.787	57.587	1.00	67.83	6
ATOM	16707	C	THR	G	998	40.351	119.192	58.281	1.00	23.80	6
ATOM	16708	O	THR	G	998	40.033	118.044	58.526	1.00	23.47	8
ATOM	16709	N	GLU	G	999	40.262	120.183	59.159	1.00	38.13	7
ATOM	16710	CA	GLU	G	999	39.789	119.976	60.525	1.00	40.51	6
ATOM	16711	CB	GLU	G	999	39.807	121.305	61.304	1.00	54.18	6
ATOM	16712	CG	GLU	G	999	40.972	121.456	62.296	1.00	55.64	6
ATOM	16713	CD	GLU	G	999	41.647	122.829	62.238	1.00	56.29	6
ATOM	16714	OE1	GLU	G	999	40.940	123.858	62.316	1.00	55.80	8
ATOM	16715	OE2	GLU	G	999	42.893	122.875	62.122	1.00	56.56	8
ATOM	16716	C	GLU	G	999	38.395	119.355	60.607	1.00	40.73	6
ATOM	16717	O	GLU	G	999	38.190	118.397	61.344	1.00	40.13	8
ATOM	16718	N	THR	G1000		37.434	119.888	59.862	1.00	47.03	7
ATOM	16719	CA	THR	G1000		36.092	119.338	59.933	1.00	48.94	6
ATOM	16720	CB	THR	G1000		35.084	120.153	59.117	1.00	63.26	6
ATOM	16721	OG1	THR	G1000		33.795	119.545	59.228	1.00	62.73	8
ATOM	16722	CG2	THR	G1000		35.478	120.198	57.658	1.00	63.98	6
ATOM	16723	C	THR	G1000		36.086	117.912	59.433	1.00	50.13	6
ATOM	16724	O	THR	G1000		35.512	117.032	60.064	1.00	51.34	8
ATOM	16725	N	THR	G1001		36.730	117.677	58.299	1.00	83.66	7
ATOM	16726	CA	THR	G1001		36.792	116.334	57.745	1.00	84.47	6
ATOM	16727	CB	THR	G1001		37.897	116.217	56.683	1.00	44.60	6
ATOM	16728	OG1	THR	G1001		37.408	116.691	55.426	1.00	42.63	8
ATOM	16729	CG2	THR	G1001		38.344	114.784	56.541	1.00	43.77	6
ATOM	16730	C	THR	G1001		37.087	115.351	58.865	1.00	84.97	6
ATOM	16731	O	THR	G1001		36.440	114.318	58.977	1.00	84.92	8
ATOM	16732	N	GLU	G1002		38.058	115.694	59.702	1.00	47.50	7
ATOM	16733	CA	GLU	G1002		38.449	114.839	60.804	1.00	48.08	6
ATOM	16734	CB	GLU	G1002		39.798	115.294	61.377	1.00	163.45	6
ATOM	16735	CG	GLU	G1002		40.942	115.292	60.367	1.00	168.56	6

ATOM	16736	CD	GLU	G1002	42.287	115.640	60.990	1.00171.31	6
ATOM	16737	OE1	GLU	G1002	42.788	114.848	61.815	1.00173.00	8
ATOM	16738	OE2	GLU	G1002	42.844	116.707	60.657	1.00172.32	8
ATOM	16739	C	GLU	G1002	37.411	114.791	61.918	1.00 47.16	6
ATOM	16740	O	GLU	G1002	37.352	113.810	62.659	1.00 47.55	8
ATOM	16741	N	LYS	G1003	36.587	115.831	62.028	1.00 68.69	7
ATOM	16742	CA	LYS	G1003	35.569	115.906	63.079	1.00 68.11	6
ATOM	16743	CB	LYS	G1003	35.285	117.370	63.426	1.00179.69	6
ATOM	16744	CG	LYS	G1003	36.486	118.147	63.966	1.00183.17	6
ATOM	16745	CD	LYS	G1003	36.860	117.745	65.392	1.00184.78	6
ATOM	16746	CE	LYS	G1003	37.945	118.666	65.951	1.00186.16	6
ATOM	16747	NZ	LYS	G1003	38.268	118.382	67.378	1.00185.20	7
ATOM	16748	C	LYS	G1003	34.250	115.199	62.765	1.00 65.91	6
ATOM	16749	O	LYS	G1003	33.421	115.024	63.649	1.00 67.12	8
ATOM	16750	N	VAL	G1004	34.045	114.813	61.511	1.00 19.70	7
ATOM	16751	CA	VAL	G1004	32.828	114.109	61.119	1.00 15.35	6
ATOM	16752	CB	VAL	G1004	32.472	114.351	59.664	1.00 18.18	6
ATOM	16753	CG1	VAL	G1004	31.065	113.884	59.414	1.00 17.86	6
ATOM	16754	CG2	VAL	G1004	32.658	115.812	59.307	1.00 18.60	6
ATOM	16755	C	VAL	G1004	33.135	112.631	61.263	1.00 13.87	6
ATOM	16756	O	VAL	G1004	32.266	111.818	61.542	1.00 13.87	8
ATOM	16757	N	THR	G1005	34.397	112.299	61.038	1.00 48.60	7
ATOM	16758	CA	THR	G1005	34.888	110.946	61.165	1.00 48.72	6
ATOM	16759	CB	THR	G1005	36.372	110.920	60.928	1.00 42.42	6
ATOM	16760	OG1	THR	G1005	36.598	110.923	59.522	1.00 43.69	8
ATOM	16761	CG2	THR	G1005	37.011	109.707	61.565	1.00 41.46	6
ATOM	16762	C	THR	G1005	34.621	110.475	62.570	1.00 48.57	6
ATOM	16763	O	THR	G1005	33.823	109.567	62.777	1.00 48.94	8
ATOM	16764	N	GLN	G1006	35.302	111.099	63.532	1.00 45.99	7
ATOM	16765	CA	GLN	G1006	35.140	110.770	64.945	1.00 44.76	6
ATOM	16766	CB	GLN	G1006	35.882	111.788	65.811	1.00113.28	6
ATOM	16767	CG	GLN	G1006	35.703	111.568	67.302	1.00117.54	6
ATOM	16768	CD	GLN	G1006	36.327	112.673	68.126	1.00118.86	6
ATOM	16769	OE1	GLN	G1006	35.954	113.840	68.000	1.00118.93	8
ATOM	16770	NE2	GLN	G1006	37.281	112.312	68.979	1.00119.91	7
ATOM	16771	C	GLN	G1006	33.652	110.787	65.283	1.00 42.67	6
ATOM	16772	O	GLN	G1006	33.211	110.183	66.259	1.00 41.89	8
ATOM	16773	N	ALA	G1007	32.888	111.504	64.470	1.00 24.56	7
ATOM	16774	CA	ALA	G1007	31.459	111.584	64.648	1.00 22.84	6
ATOM	16775	CB	ALA	G1007	30.897	112.756	63.873	1.00 67.16	6
ATOM	16776	C	ALA	G1007	30.935	110.273	64.092	1.00 21.77	6
ATOM	16777	O	ALA	G1007	30.696	109.342	64.841	1.00 20.96	8
ATOM	16778	N	VAL	G1008	30.779				

ATOM	16792	CE2	PHE	G1009	35.867	103.306	63.918	1.00	23.61	6
ATOM	16793	CZ	PHE	G1009	35.941	102.681	62.692	1.00	24.04	6
ATOM	16794	C	PHE	G1009	32.820	106.352	64.746	1.00	28.58	6
ATOM	16795	O	PHE	G1009	33.691	105.800	65.411	1.00	29.23	8
ATOM	16796	N	ASN	G1010	31.684	106.765	65.280	1.00	24.41	7
ATOM	16797	CA	ASN	G1010	31.458	106.597	66.700	1.00	27.31	6
ATOM	16798	CB	ASN	G1010	32.334	107.593	67.473	1.00	65.80	6
ATOM	16799	CG	ASN	G1010	31.555	108.438	68.456	1.00	70.69	6
ATOM	16800	OD1	ASN	G1010	30.889	107.918	69.354	1.00	73.17	8
ATOM	16801	ND2	ASN	G1010	31.651	109.757	68.304	1.00	74.01	7
ATOM	16802	C	ASN	G1010	29.979	106.794	66.958	1.00	27.09	6
ATOM	16803	O	ASN	G1010	29.509	106.675	68.083	1.00	26.98	8
ATOM	16804	N	ASN	G1011	29.238	107.106	65.900	1.00	26.98	7
ATOM	16805	CA	ASN	G1011	27.803	107.247	66.042	1.00	27.01	6
ATOM	16806	CB	ASN	G1011	27.136	107.491	64.680	1.00	34.41	6
ATOM	16807	CG	ASN	G1011	25.653	107.074	64.648	1.00	33.50	6
ATOM	16808	OD1	ASN	G1011	24.993	106.962	65.684	1.00	31.38	8
ATOM	16809	ND2	ASN	G1011	25.128	106.864	63.442	1.00	33.53	7
ATOM	16810	C	ASN	G1011	27.474	105.861	66.525	1.00	28.16	6
ATOM	16811	O	ASN	G1011	26.616	105.678	67.393	1.00	28.30	8
ATOM	16812	N	PHE	G1012	28.211	104.891	65.974	1.00	25.48	7
ATOM	16813	CA	PHE	G1012	28.006	103.499	66.303	1.00	26.89	6
ATOM	16814	CB	PHE	G1012	28.574	102.599	65.194	1.00	76.72	6
ATOM	16815	CG	PHE	G1012	30.077	102.540	65.133	1.00	81.65	6
ATOM	16816	CD1	PHE	G1012	30.766	103.158	64.095	1.00	83.16	6
ATOM	16817	CD2	PHE	G1012	30.803	101.786	66.065	1.00	84.27	6
ATOM	16818	CE1	PHE	G1012	32.159	103.018	63.980	1.00	84.33	6
ATOM	16819	CE2	PHE	G1012	32.194	101.639	65.964	1.00	84.69	6
ATOM	16820	CZ	PHE	G1012	32.870	102.254	64.917	1.00	84.73	6
ATOM	16821	C	PHE	G1012	28.531	103.098	67.669	1.00	26.09	6
ATOM	16822	O	PHE	G1012	27.961	102.237	68.334	1.00	26.39	8
ATOM	16823	N	GLU	G1013	29.596	103.734	68.122	1.00	20.55	7
ATOM	16824	CA	GLU	G1013	30.133	103.379	69.423	1.00	21.05	6
ATOM	16825	CB	GLU	G1013	31.290	104.297	69.808	1.00	105.45	6
ATOM	16826	CG	GLU	G1013	32.101	103.743	70.963	1.00	109.34	6
ATOM	16827	CD	GLU	G1013	33.209	104.666	71.415	1.00	111.45	6
ATOM	16828	OE1	GLU	G1013	32.896	105.751	71.954	1.00	111.87	8
ATOM	16829	OE2	GLU	G1013	34.394	104.309	71.232	1.00	112.63	8
ATOM	16830	C	GLU	G1013	29.067	103.429	70.507	1.00	19.55	6
ATOM	16831	O	GLU	G1013	29.292	102.977	71.619	1.00	17.89	8
ATOM	16832	N	GLU	G1014	27.898	103.967	70.198	1.00		

ATOM	16848	O	ASN	G1015	25.439	102.595	66.635	1.00	56.98	8
ATOM	16849	N	TYR	G1016	24.638	100.808	67.759	1.00	24.66	7
ATOM	16850	CA	TYR	G1016	25.120	99.813	66.812	1.00	22.45	6
ATOM	16851	CB	TYR	G1016	25.221	100.412	65.409	1.00	21.71	6
ATOM	16852	CG	TYR	G1016	24.070	101.305	65.057	1.00	19.54	6
ATOM	16853	CD1	TYR	G1016	22.787	100.970	65.437	1.00	19.92	6
ATOM	16854	CE1	TYR	G1016	21.715	101.769	65.119	1.00	20.03	6
ATOM	16855	CD2	TYR	G1016	24.259	102.483	64.344	1.00	18.54	6
ATOM	16856	CE2	TYR	G1016	23.189	103.293	64.015	1.00	19.28	6
ATOM	16857	CZ	TYR	G1016	21.915	102.919	64.404	1.00	19.67	6
ATOM	16858	OH	TYR	G1016	20.798	103.626	64.029	1.00	20.78	8
ATOM	16859	C	TYR	G1016	26.479	99.227	67.194	1.00	23.39	6
ATOM	16860	O	TYR	G1016	27.407	99.248	66.385	1.00	22.77	8
ATOM	16861	N	PRO	G1017	26.624	98.695	68.426	1.00	56.70	7
ATOM	16862	CD	PRO	G1017	25.624	98.598	69.501	1.00	33.23	6
ATOM	16863	CA	PRO	G1017	27.898	98.106	68.859	1.00	57.58	6
ATOM	16864	CB	PRO	G1017	27.646	97.786	70.330	1.00	32.92	6
ATOM	16865	CG	PRO	G1017	26.187	97.488	70.353	1.00	33.40	6
ATOM	16866	C	PRO	G1017	28.274	96.863	68.022	1.00	58.06	6
ATOM	16867	O	PRO	G1017	29.357	96.293	68.175	1.00	56.67	8
ATOM	16868	N	PHE	G1018	27.352	96.449	67.155	1.00	32.01	7
ATOM	16869	CA	PHE	G1018	27.564	95.337	66.240	1.00	32.64	6
ATOM	16870	CB	PHE	G1018	26.736	94.116	66.605	1.00	27.34	6
ATOM	16871	CG	PHE	G1018	27.030	93.555	67.935	1.00	24.96	6
ATOM	16872	CD1	PHE	G1018	26.578	94.183	69.078	1.00	23.88	6
ATOM	16873	CD2	PHE	G1018	27.739	92.373	68.052	1.00	24.97	6
ATOM	16874	CE1	PHE	G1018	26.826	93.640	70.335	1.00	24.18	6
ATOM	16875	CE2	PHE	G1018	27.995	91.820	69.295	1.00	25.84	6
ATOM	16876	CZ	PHE	G1018	27.535	92.455	70.446	1.00	25.55	6
ATOM	16877	C	PHE	G1018	27.030	95.832	64.915	1.00	34.98	6
ATOM	16878	O	PHE	G1018	27.758	95.999	63.936	1.00	33.54	8
ATOM	16879	N	ASN	G1019	25.722	96.057	64.929	1.00	207.79	7
ATOM	16880	CA	ASN	G1019	24.963	96.515	63.783	1.00	208.87	6
ATOM	16881	CB	ASN	G1019	24.022	97.629	64.201	1.00	141.66	6
ATOM	16882	CG	ASN	G1019	22.795	97.093	64.864	1.00	145.22	6
ATOM	16883	OD1	ASN	G1019	22.058	96.318	64.259	1.00	145.63	8
ATOM	16884	ND2	ASN	G1019	22.569	97.478	66.112	1.00	147.27	7
ATOM	16885	C	ASN	G1019	25.757	96.928	62.575	1.00	208.87	6
ATOM	16886	O	ASN	G1019	25.538	96.396	61.485	1.00	208.87	8
ATOM	16887	N	PRO	G1020	26.678	97.889	62.723	1.00	35.68	7
ATOM	16888	CD	PRO	G1020	27.066	98.923	63.688	1.00	157.45	6
ATOM	16889	CA	PRO	G1020	27.318	98.114	61.441	1.00	34.69	6
ATOM	16890	CB	PRO	G1020	28.161	99.357	61.684	1.00	156.72	6
ATOM	16891	CG	PRO	G1020	27.417	100.069	62.773	1.00	158.71	6
ATOM	16892	C	PRO	G1020	28.137	96.863	61.226	1.00	32.82	6
ATOM	16893	O	PRO	G1020	29.106	96.604	61.932	1.00	31.89	8
ATOM	16894	N	LEU	G1021	27.704	96.051	60.281	1.00	42.00	7
ATOM	16895	CA	LEU	G1021	28.432	94.858	60.000	1.00	41.98	6
ATOM	16896	CB	LEU	G1021	27.552	93.915	59.200	1.00	99.92	6
ATOM	16897	CG	LEU	G1021	26.277	93.613	60.004	1.00	103.21	6
ATOM	16898	CD1	LEU	G1021	25.310	92.740	59.213	1.00	104.59	6
ATOM	16899	CD2	LEU	G1021	26.671	92.936	61.317	1.00	103.00	6
ATOM	16900	C	LEU	G1021	29.620	95.388	59.222	1.00	41.58	6
ATOM	16901	O	LEU	G1021	30.272	94.671	58.456	1.00	42.23	8
ATOM	16902	N	ALA	G1022	29.874	96.680	59.449	1.00	52.95	7
ATOM	16903	CA	ALA	G1022	30.979	97.435	58.867	1.00	50.22	6

ATOM	16904	CB	ALA	G1022	30.462	98.571	57.940	1.00	13.87	6
ATOM	16905	C	ALA	G1022	31.759	98.022	60.043	1.00	49.94	6
ATOM	16906	O	ALA	G1022	32.563	98.930	59.858	1.00	52.39	8
ATOM	16907	N	VAL	G1023	31.517	97.504	61.251	1.00	42.90	7
ATOM	16908	CA	VAL	G1023	32.216	97.986	62.449	1.00	40.86	6
ATOM	16909	CB	VAL	G1023	31.247	98.611	63.494	1.00	13.87	6
ATOM	16910	CG1	VAL	G1023	31.973	98.885	64.810	1.00	13.87	6
ATOM	16911	CG2	VAL	G1023	30.732	99.904	62.986	1.00	13.87	6
ATOM	16912	C	VAL	G1023	33.060	96.936	63.160	1.00	40.24	6
ATOM	16913	O	VAL	G1023	34.204	97.219	63.503	1.00	39.61	8
ATOM	16914	N	MET	G1024	32.518	95.743	63.399	1.00	35.27	7
ATOM	16915	CA	MET	G1024	33.297	94.701	64.072	1.00	36.89	6
ATOM	16916	CB	MET	G1024	32.588	93.348	64.009	1.00	70.11	6
ATOM	16917	CG	MET	G1024	31.097	93.437	63.892	1.00	76.08	6
ATOM	16918	SD	MET	G1024	30.439	94.780	64.866	1.00	82.04	16
ATOM	16919	CE	MET	G1024	30.639	94.123	66.544	1.00	82.88	6
ATOM	16920	C	MET	G1024	34.608	94.603	63.309	1.00	37.14	6
ATOM	16921	O	MET	G1024	35.690	94.445	63.887	1.00	36.34	8
ATOM	16922	N	ALA	G1025	34.479	94.689	61.989	1.00	64.65	7
ATOM	16923	CA	ALA	G1025	35.616	94.657	61.096	1.00	62.51	6
ATOM	16924	CB	ALA	G1025	35.148	94.774	59.661	1.00	22.04	6
ATOM	16925	C	ALA	G1025	36.420	95.876	61.480	1.00	61.26	6
ATOM	16926	O	ALA	G1025	37.446	95.774	62.147	1.00	61.20	8
ATOM	16927	N	ALA	G1026	35.914	97.035	61.072	1.00	34.88	7
ATOM	16928	CA	ALA	G1026	36.547	98.317	61.363	1.00	32.65	6
ATOM	16929	CB	ALA	G1026	35.501	99.429	61.319	1.00	75.61	6
ATOM	16930	C	ALA	G1026	37.247	98.313	62.714	1.00	30.71	6
ATOM	16931	O	ALA	G1026	38.432	98.614	62.803	1.00	28.71	8
ATOM	16932	N	SER	G1027	36.509	97.961	63.760	1.00	22.46	7
ATOM	16933	CA	SER	G1027	37.064	97.937	65.103	1.00	22.87	6
ATOM	16934	CB	SER	G1027	35.969	98.095	66.162	1.00	29.31	6
ATOM	16935	OG	SER	G1027	35.643	99.462	66.383	1.00	32.08	8
ATOM	16936	C	SER	G1027	37.869	96.701	65.436	1.00	22.83	6
ATOM	16937	O	SER	G1027	37.844	96.251	66.577	1.00	22.96	8
ATOM	16938	N	GLY	G1028	38.592	96.154	64.466	1.00	23.58	7
ATOM	16939	CA	GLY	G1028	39.384	94.976	64.759	1.00	23.25	6
ATOM	16940	C	GLY	G1028	38.840	93.702	64.152	1.00	23.22	6
ATOM	16941	O	GLY	G1028	37.960	93.049	64.724	1.00	22.96	8
ATOM	16942	N	ALA	G1029	39.388	93.362	62.984	1.00	43.48	7
ATOM	16943	CA	ALA	G1029	39.008	92.182	62.203	1.00	42.94	6
ATOM	16944	CB	ALA	G1029	37.492	92.038	62.162	1.00	114.37	6
ATOM	16945	C	ALA	G1029	39.560	92.324	60.782	1.00	41.27	6
ATOM	16946	O	ALA	G1029	40.702	91.963	60.535	1.00	40.25	8
ATOM	16947	N	ALA	G1030	38.743	92.851	59.864	1.00	18.27	7
ATOM	16948	CA	ALA	G1030	39.154	93.059	58.471	1.00	17.47	6
ATOM	16949	CB	ALA	G1030	38.833	91.817	57.668	1.00	13.87	6
ATOM	16950	C	ALA	G1030	38.603	94.313	57.744	1.00	16.81	6
ATOM	16951	O	ALA	G1030	38.171	94.216	56.602	1.00	14.21	8
ATOM	16952	N	GLY	G1031	38.650	95.476	58.399	1.00	24.11	7
ATOM	16953	CA	GLY	G1031	38.181	96.730	57.809	1.00	27.61	6
ATOM	16954	C	GLY	G1031	39.156	97.870	58.097	1.00	28.66	6
ATOM	16955	O	GLY	G1031	40.355	97.632	58.049	1.00	29.08	8
ATOM	16956	N	ASN	G1032	38.671	99.086	58.394	1.00	31.32	7
ATOM	16957	CA	ASN	G1032	39.537	100.253	58.714	1.00	32.32	6
ATOM	16958	CB	ASN	G1032	40.711	100.293	57.742	1.00	40.11	6
ATOM	16959	CG	ASN	G1032	40.749	101.546	56.925	1.00	41.52	6

ATOM	16960	OD1	ASN	G1032	40.997	102.629	57.457	1.00	40.09	8
ATOM	16961	ND2	ASN	G1032	40.507	101.415	55.615	1.00	41.76	7
ATOM	16962	C	ASN	G1032	38.786	101.605	58.710	1.00	33.63	6
ATOM	16963	O	ASN	G1032	37.928	101.827	57.860	1.00	33.89	8
ATOM	16964	N	PRO	G1033	39.123	102.534	59.643	1.00	61.40	7
ATOM	16965	CD	PRO	G1033	40.242	102.397	60.588	1.00	25.12	6
ATOM	16966	CA	PRO	G1033	38.518	103.868	59.813	1.00	62.26	6
ATOM	16967	CB	PRO	G1033	39.091	104.346	61.132	1.00	24.15	6
ATOM	16968	CG	PRO	G1033	40.444	103.860	61.051	1.00	23.45	6
ATOM	16969	C	PRO	G1033	38.693	104.930	58.758	1.00	64.25	6
ATOM	16970	O	PRO	G1033	37.806	105.752	58.575	1.00	66.07	8
ATOM	16971	N	GLN	G1034	39.836	104.965	58.093	1.00	53.14	7
ATOM	16972	CA	GLN	G1034	40.013	105.982	57.065	1.00	54.20	6
ATOM	16973	CB	GLN	G1034	41.437	105.968	56.514	1.00	98.46	6
ATOM	16974	CG	GLN	G1034	41.839	104.665	55.872	1.00	102.25	6
ATOM	16975	CD	GLN	G1034	42.929	104.849	54.848	1.00	104.72	6
ATOM	16976	OE1	GLN	G1034	43.940	105.501	55.118	1.00	107.00	8
ATOM	16977	NE2	GLN	G1034	42.736	104.274	53.660	1.00	105.14	7
ATOM	16978	C	GLN	G1034	39.019	105.712	55.939	1.00	52.80	6
ATOM	16979	O	GLN	G1034	38.436	106.628	55.359	1.00	53.41	8
ATOM	16980	N	GLN	G1035	38.822	104.436	55.641	1.00	28.01	7
ATOM	16981	CA	GLN	G1035	37.901	104.042	54.597	1.00	27.34	6
ATOM	16982	CB	GLN	G1035	38.143	102.572	54.233	1.00	35.98	6
ATOM	16983	CG	GLN	G1035	37.566	102.180	52.894	1.00	35.91	6
ATOM	16984	CD	GLN	G1035	37.959	103.140	51.789	1.00	34.17	6
ATOM	16985	OE1	GLN	G1035	38.958	102.944	51.100	1.00	34.61	8
ATOM	16986	NE2	GLN	G1035	37.169	104.188	51.615	1.00	32.73	7
ATOM	16987	C	GLN	G1035	36.471	104.291	55.096	1.00	27.53	6
ATOM	16988	O	GLN	G1035	35.692	104.960	54.419	1.00	27.23	8
ATOM	16989	N	ILE	G1036	36.139	103.771	56.283	1.00	38.83	7
ATOM	16990	CA	ILE	G1036	34.817	103.973	56.893	1.00	38.39	6
ATOM	16991	CB	ILE	G1036	34.842	103.670	58.403	1.00	29.15	6
ATOM	16992	CG2	ILE	G1036	33.456	103.848	58.996	1.00	29.71	6
ATOM	16993	CG1	ILE	G1036	35.325	102.245	58.645	1.00	29.83	6
ATOM	16994	CD1	ILE	G1036	34.278	101.197	58.439	1.00	33.08	6
ATOM	16995	C	ILE	G1036	34.383	105.434	56.751	1.00	38.77	6
ATOM	16996	O	ILE	G1036	33.326	105.728	56.194	1.00	38.44	8
ATOM	16997	N	ARG	G1037	35.210	106.340	57.271	1.00	61.86	7
ATOM	16998	CA	ARG	G1037	34.957	107.785	57.226	1.00	63.48	6
ATOM	16999	CB	ARG	G1037	36.123	108.546	57.847	1.00	66.49	6
ATOM	17000	CG	ARG	G1037	37.317	108.654	56.912	1.00	68.48	6
ATOM	17001	CD	ARG	G1037	38.584	109.003	57.648	1.00	71.23	6
ATOM	17002	NE	ARG	G1037	38.994	110.384	57.433	1.00	73.35	7
ATOM	17003	CZ	ARG	G1037	40.004	110.959	58.079	1.00	74.16	6
ATOM	17004	NH1	ARG	G1037	40.697	110.264	58.976	1.00	75.40	7
ATOM	17005	NH2	ARG	G1037	40.322	112.224	57.839	1.00	73.81	7
ATOM	17006	C	ARG	G1037	34.840	108.248	55.796	1.00	63.18	6
ATOM	17007	O	ARG	G1037	34.764	109.441	55.526	1.00	64.48	8
ATOM	17008	N	GLN	G1038	34.863	107.294	54.882	1.00	29.30	7
ATOM	17009	CA	GLN	G1038	34.799	107.590	53.473	1.00	28.59	6
ATOM	17010	CB	GLN	G1038	36.084	107.065	52.829	1.00	33.94	6
ATOM	17011	CG	GLN	G1038	36.224	107.363	51.368	1.00	33.57	6
ATOM	17012	CD	GLN	G1038	37.659	107.287	50.912	1.00	32.47	6
ATOM	17013	OE1	GLN	G1038	38.505	108.037	51.389	1.00	30.02	8
ATOM	17014	NE2	GLN	G1038	37.943	106.377	49.980	1.00	31.63	7
ATOM	17015	C	GLN	G1038	33.541	106.963	52.868	1.00	28.87	6

ATOM	17016	O	GLN	G1038	33.153	107.267	51.737	1.00	28.39	8
ATOM	17017	N	LEU	G1039	32.899	106.103	53.654	1.00	70.71	7
ATOM	17018	CA	LEU	G1039	31.682	105.415	53.242	1.00	70.80	6
ATOM	17019	CB	LEU	G1039	31.738	103.936	53.676	1.00	42.09	6
ATOM	17020	CG	LEU	G1039	32.453	102.888	52.796	1.00	40.18	6
ATOM	17021	CD1	LEU	G1039	33.221	101.911	53.676	1.00	39.29	6
ATOM	17022	CD2	LEU	G1039	31.435	102.134	51.934	1.00	39.21	6
ATOM	17023	C	LEU	G1039	30.432	106.092	53.816	1.00	71.42	6
ATOM	17024	O	LEU	G1039	29.384	106.097	53.173	1.00	71.93	8
ATOM	17025	N	CYS	G1040	30.540	106.663	55.016	1.00	65.44	7
ATOM	17026	CA	CYS	G1040	29.409	107.348	55.661	1.00	64.85	6
ATOM	17027	CB	CYS	G1040	29.094	106.700	57.000	1.00	59.35	6
ATOM	17028	SG	CYS	G1040	29.747	105.049	57.133	1.00	61.15	16
ATOM	17029	C	CYS	G1040	29.771	108.804	55.904	1.00	63.95	6
ATOM	17030	O	CYS	G1040	29.198	109.726	55.313	1.00	65.31	8
ATOM	17031	N	GLY	G1041	30.714	109.005	56.809	1.00	55.48	7
ATOM	17032	CA	GLY	G1041	31.161	110.350	57.080	1.00	53.62	6
ATOM	17033	C	GLY	G1041	31.934	110.727	55.838	1.00	52.73	6
ATOM	17034	O	GLY	G1041	32.603	109.885	55.239	1.00	53.70	8
ATOM	17035	N	MET	G1042	31.836	111.989	55.449	1.00	25.63	7
ATOM	17036	CA	MET	G1042	32.502	112.496	54.260	1.00	24.49	6
ATOM	17037	CB	MET	G1042	32.111	113.972	54.092	1.00	25.46	6
ATOM	17038	CG	MET	G1042	33.240	114.928	53.742	1.00	22.44	6
ATOM	17039	SD	MET	G1042	34.025	115.738	55.131	1.00	19.24	16
ATOM	17040	CE	MET	G1042	33.215	117.284	55.029	1.00	19.20	6
ATOM	17041	C	MET	G1042	34.022	112.331	54.205	1.00	25.73	6
ATOM	17042	O	MET	G1042	34.685	112.203	55.222	1.00	25.57	8
ATOM	17043	N	ARG	G1043	34.547	112.292	52.988	1.00	44.89	7
ATOM	17044	CA	ARG	G1043	35.986	112.233	52.715	1.00	48.27	6
ATOM	17045	CB	ARG	G1043	36.429	110.873	52.194	1.00	65.34	6
ATOM	17046	CG	ARG	G1043	35.770	110.465	50.882	1.00	65.04	6
ATOM	17047	CD	ARG	G1043	36.784	110.183	49.795	1.00	65.29	6
ATOM	17048	NE	ARG	G1043	36.243	109.239	48.826	1.00	65.65	7
ATOM	17049	CZ	ARG	G1043	36.953	108.677	47.853	1.00	66.26	6
ATOM	17050	NH1	ARG	G1043	38.240	108.963	47.702	1.00	65.82	7
ATOM	17051	NH2	ARG	G1043	36.378	107.801	47.045	1.00	66.87	7
ATOM	17052	C	ARG	G1043	35.984	113.219	51.571	1.00	50.08	6
ATOM	17053	O	ARG	G1043	35.203	113.066	50.631	1.00	51.17	8
ATOM	17054	N	GLY	G1044	36.813	114.248	51.627	1.00	57.92	7
ATOM	17055	CA	GLY	G1044	36.731	115.192	50.540	1.00	59.57	6
ATOM	17056	C	GLY	G1044	37.839	116.174	50.308	1.00	60.51	6
ATOM	17057	O	GLY	G1044	37.808	116.869	49.296	1.00	61.34	8
ATOM	17058	N	LEU	G1045	38.819	116.262	51.195	1.00	60.85	7
ATOM	17059	CA	LEU	G1045	39.858	117.237	50.919	1.00	62.64	6
ATOM	17060	CB	LEU	G1045	40.575	117.677	52.196	1.00	38.16	6
ATOM	17061	CG	LEU	G1045	41.209	119.044	51.893	1.00	35.37	6
ATOM	17062	CD1	LEU	G1045	40.087	120.046	51.575	1.00	34.03	6
ATOM	17063	CD2	LEU	G1045	42.068	119.514	53.049	1.00	33.75	6
ATOM	17064	C	LEU	G1045	40.865	116.725	49.888	1.00	64.76	6
ATOM	17065	O	LEU	G1045	42.082	116.753	50.101	1.00	65.26	8
ATOM	17066	N	MET	G1046	40.341	116.270	48.757	1.00	37.70	7
ATOM	17067	CA	MET	G1046	41.166	115.757	47.684	1.00	40.48	6
ATOM	17068	CB	MET	G1046	40.310	115.557	46.434	1.00	46.68	6
ATOM	17069	CG	MET	G1046	40.245	114.123	45.958	1.00	46.40	6
ATOM	17070	SD	MET	G1046	39.655	113.048	47.262	1.00	45.03	16
ATOM	17071	CE	MET	G1046	41.205	112.756	48.251	1.00	44.35	6

ATOM	17072	C	MET	G1046	42.307	116.716	47.383	1.00	43.07	6
ATOM	17073	O	MET	G1046	42.280	117.873	47.802	1.00	43.33	8
ATOM	17074	N	GLN	G1047	43.312	116.229	46.661	1.00	104.69	7
ATOM	17075	CA	GLN	G1047	44.458	117.050	46.286	1.00	107.40	6
ATOM	17076	CB	GLN	G1047	45.727	116.557	46.986	1.00	148.76	6
ATOM	17077	CG	GLN	G1047	46.083	115.113	46.697	1.00	151.67	6
ATOM	17078	CD	GLN	G1047	47.175	114.602	47.614	1.00	152.97	6
ATOM	17079	OE1	GLN	G1047	47.557	113.432	47.555	1.00	153.66	8
ATOM	17080	NE2	GLN	G1047	47.681	115.480	48.474	1.00	152.49	7
ATOM	17081	C	GLN	G1047	44.646	117.011	44.777	1.00	107.91	6
ATOM	17082	O	GLN	G1047	44.316	116.020	44.130	1.00	107.82	8
ATOM	17083	N	LYS	G1048	45.162	118.100	44.219	1.00	73.19	7
ATOM	17084	CA	LYS	G1048	45.385	118.180	42.787	1.00	74.01	6
ATOM	17085	CB	LYS	G1048	45.861	119.584	42.398	1.00	114.73	6
ATOM	17086	CG	LYS	G1048	44.784	120.651	42.584	1.00	116.62	6
ATOM	17087	CD	LYS	G1048	45.227	122.030	42.112	1.00	118.68	6
ATOM	17088	CE	LYS	G1048	44.177	123.084	42.454	1.00	119.59	6
ATOM	17089	NZ	LYS	G1048	44.545	124.449	41.991	1.00	120.42	7
ATOM	17090	C	LYS	G1048	46.401	117.129	42.398	1.00	73.88	6
ATOM	17091	O	LYS	G1048	46.961	116.459	43.261	1.00	74.48	8
ATOM	17092	N	PRO	G1049	46.636	116.947	41.093	1.00	68.45	7
ATOM	17093	CD	PRO	G1049	46.020	117.628	39.942	1.00	55.63	6
ATOM	17094	CA	PRO	G1049	47.604	115.948	40.646	1.00	68.78	6
ATOM	17095	CB	PRO	G1049	47.338	115.873	39.154	1.00	55.58	6
ATOM	17096	CG	PRO	G1049	46.963	117.285	38.828	1.00	55.59	6
ATOM	17097	C	PRO	G1049	49.035	116.363	40.969	1.00	69.61	6
ATOM	17098	O	PRO	G1049	49.964	115.578	40.804	1.00	70.14	8
ATOM	17099	N	SER	G1050	49.197	117.598	41.438	1.00	81.57	7
ATOM	17100	CA	SER	G1050	50.509	118.144	41.801	1.00	81.32	6
ATOM	17101	CB	SER	G1050	50.787	119.411	41.003	1.00	56.87	6
ATOM	17102	OG	SER	G1050	50.046	120.494	41.536	1.00	57.14	8
ATOM	17103	C	SER	G1050	50.557	118.499	43.290	1.00	81.18	6
ATOM	17104	O	SER	G1050	51.218	119.463	43.690	1.00	81.10	8
ATOM	17105	N	GLY	G1051	49.847	117.720	44.102	1.00	113.08	7
ATOM	17106	CA	GLY	G1051	49.803	117.973	45.531	1.00	111.73	6
ATOM	17107	C	GLY	G1051	49.364	119.396	45.797	1.00	110.65	6
ATOM	17108	O	GLY	G1051	50.143	120.205	46.288	1.00	111.24	8
ATOM	17109	N	ALA	G1052	48.115	119.708	45.478	1.00	76.20	7
ATOM	17110	CA	ALA	G1052	47.627	121.061	45.681	1.00	74.93	6
ATOM	17111	CB	ALA	G1052	47.662	121.815	44.344	1.00	62.62	6
ATOM	17112	C	ALA	G1052	46.227	121.142	46.305	1.00	74.29	6
ATOM	17113	O	ALA	G1052	45.475	122.087	46.033	1.00	75.40	8
ATOM	17114	N	THR	G1053	45.897	120.164	47.152	1.00	31.97	7
ATOM	17115	CA	THR	G1053	44.591	120.091	47.818	1.00	30.20	6
ATOM	17116	CB	THR	G1053	44.689	120.463	49.292	1.00	50.31	6
ATOM	17117	OG1	THR	G1053	45.958	121.082	49.535	1.00	52.45	8
ATOM	17118	CG2	THR	G1053	44.521	119.226	50.167	1.00	51.29	6
ATOM	17119	C	THR	G1053	43.550	120.997	47.205	1.00	28.15	6
ATOM	17120	O	THR	G1053	43.569	122.199	47.436	1.00	26.84	8
ATOM	17121	N	PHE	G1054	42.647	120.433	46.416	1.00	59.95	7
ATOM	17122	CA	PHE	G1054	41.624	121.257	45.812	1.00	60.48	6
ATOM	17123	CB	PHE	G1054	40.641	120.410	45.025	1.00	66.54	6
ATOM	17124	CG	PHE	G1054	41.227	119.790	43.796	1.00	67.65	6
ATOM	17125	CD1	PHE	G1054	41.975	118.622	43.877	1.00	67.50	6
ATOM	17126	CD2	PHE	G1054	41.010	120.363	42.547	1.00	67.81	6
ATOM	17127	CE1	PHE	G1054	42.491	118.033	42.733	1.00	67.85	6



ATOM	17128	CE2	PHE	G1054	41.527	119.780	41.395	1.00	67.89	6
ATOM	17129	CZ	PHE	G1054	42.267	118.613	41.489	1.00	68.40	6
ATOM	17130	C	PHE	G1054	40.896	122.008	46.918	1.00	60.72	6
ATOM	17131	O	PHE	G1054	40.551	121.426	47.956	1.00	60.81	8
ATOM	17132	N	GLU	G1055	40.673	123.301	46.680	1.00	49.92	7
ATOM	17133	CA	GLU	G1055	40.016	124.199	47.623	1.00	48.19	6
ATOM	17134	CB	GLU	G1055	40.000	125.604	47.024	1.00	56.84	6
ATOM	17135	CG	GLU	G1055	39.805	126.741	48.014	1.00	58.12	6
ATOM	17136	CD	GLU	G1055	40.276	128.083	47.457	1.00	59.13	6
ATOM	17137	OE1	GLU	G1055	40.417	128.200	46.222	1.00	60.11	8
ATOM	17138	OE2	GLU	G1055	40.500	129.026	48.248	1.00	60.04	8
ATOM	17139	C	GLU	G1055	38.604	123.749	48.021	1.00	47.22	6
ATOM	17140	O	GLU	G1055	38.124	124.124	49.085	1.00	47.12	8
ATOM	17141	N	VAL	G1056	37.945	122.949	47.179	1.00	74.64	7
ATOM	17142	CA	VAL	G1056	36.602	122.429	47.488	1.00	73.07	6
ATOM	17143	CB	VAL	G1056	35.619	122.590	46.298	1.00	56.31	6
ATOM	17144	CG1	VAL	G1056	34.610	121.454	46.288	1.00	54.51	6
ATOM	17145	CG2	VAL	G1056	34.867	123.906	46.420	1.00	55.73	6
ATOM	17146	C	VAL	G1056	36.670	120.944	47.844	1.00	72.41	6
ATOM	17147	O	VAL	G1056	36.977	120.110	46.993	1.00	73.70	8
ATOM	17148	N	PRO	G1057	36.370	120.593	49.107	1.00	23.65	7
ATOM	17149	CD	PRO	G1057	35.806	121.415	50.190	1.00	61.10	6
ATOM	17150	CA	PRO	G1057	36.418	119.194	49.519	1.00	22.52	6
ATOM	17151	CB	PRO	G1057	36.225	119.283	51.026	1.00	59.37	6
ATOM	17152	CG	PRO	G1057	35.239	120.362	51.133	1.00	59.92	6
ATOM	17153	C	PRO	G1057	35.294	118.449	48.828	1.00	22.39	6
ATOM	17154	O	PRO	G1057	34.716	118.960	47.862	1.00	22.06	8
ATOM	17155	N	VAL	G1058	34.977	117.252	49.317	1.00	25.40	7
ATOM	17156	CA	VAL	G1058	33.906	116.486	48.712	1.00	26.34	6
ATOM	17157	CB	VAL	G1058	34.467	115.197	48.079	1.00	27.11	6
ATOM	17158	CG1	VAL	G1058	33.622	114.822	46.877	1.00	29.20	6
ATOM	17159	CG2	VAL	G1058	35.895	115.397	47.651	1.00	26.42	6
ATOM	17160	C	VAL	G1058	32.747	116.126	49.664	1.00	27.04	6
ATOM	17161	O	VAL	G1058	32.899	116.099	50.876	1.00	26.43	8
ATOM	17162	N	ALA	G1059	31.574	115.884	49.097	1.00	71.48	7
ATOM	17163	CA	ALA	G1059	30.418	115.473	49.883	1.00	73.02	6
ATOM	17164	CB	ALA	G1059	29.192	116.248	49.456	1.00	172.76	6
ATOM	17165	C	ALA	G1059	30.288	114.000	49.497	1.00	72.38	6
ATOM	17166	O	ALA	G1059	29.463	113.621	48.646	1.00	71.49	8
ATOM	17167	N	SER	G1060	31.120	113.174	50.126	1.00	42.81	7
ATOM	17168	CA	SER	G1060	31.166	111.757	49.803	1.00	43.34	6
ATOM	17169	CB	SER	G1060	32.612	111.249	49.901	1.00	151.82	6
ATOM	17170	OG	SER	G1060	33.485	111.929	49.012	1.00	154.10	8
ATOM	17171	C	SER	G1060	30.287	110.829	50.607	1.00	42.52	6
ATOM	17172	O	SER	G1060	30.751	109.771	51.024	1.00	42.80	8
ATOM	17173	N	SER	G1061	29.028	111.182	50.832	1.00	64.02	7
ATOM	17174	CA	SER	G1061	28.185	110.274	51.598	1.00	64.44	6
ATOM	17175	CB	SER	G1061	26.691	110.505	51.300	1.00	46.66	6
ATOM	17176	OG	SER	G1061	26.195	111.687	51.908	1.00	45.87	8
ATOM	17177	C	SER	G1061	28.603	108.862	51.166	1.00	65.14	6
ATOM	17178	O	SER	G1061	28.620	107.944	51.985	1.00	65.32	8
ATOM	17179	N	PHE	G1062	28.995	108.730	49.889	1.00	52.12	7
ATOM	17180	CA	PHE	G1062	29.416	107.464	49.269	1.00	50.54	6
ATOM	17181	CB	PHE	G1062	30.623	106.862	49.999	1.00	42.33	6
ATOM	17182	CG	PHE	G1062	31.762	106.469	49.080	1.00	41.07	6
ATOM	17183	CD1	PHE	G1062	31.922	107.078	47.837	1.00	40.91	6

ATOM	17184	CD2	PHE	G1062	32.718	105.546	49.489	1.00	39.80	6
ATOM	17185	CE1	PHE	G1062	33.016	106.775	47.027	1.00	39.89	6
ATOM	17186	CE2	PHE	G1062	33.812	105.241	48.684	1.00	39.22	6
ATOM	17187	CZ	PHE	G1062	33.961	105.855	47.458	1.00	39.25	6
ATOM	17188	C	PHE	G1062	28.218	106.556	49.387	1.00	50.10	6
ATOM	17189	O	PHE	G1062	27.690	106.061	48.392	1.00	48.76	8
ATOM	17190	N	ARG	G1063	27.803	106.363	50.635	1.00	40.59	7
ATOM	17191	CA	ARG	G1063	26.641	105.582	50.981	1.00	41.65	6
ATOM	17192	CB	ARG	G1063	26.299	105.801	52.454	1.00	46.91	6
ATOM	17193	CG	ARG	G1063	24.934	105.285	52.863	1.00	46.03	6
ATOM	17194	CD	ARG	G1063	23.829	106.224	52.409	1.00	44.48	6
ATOM	17195	NE	ARG	G1063	22.511	105.768	52.826	1.00	42.65	7
ATOM	17196	CZ	ARG	G1063	22.218	105.351	54.056	1.00	42.52	6
ATOM	17197	NH1	ARG	G1063	23.158	105.326	54.993	1.00	40.99	7
ATOM	17198	NH2	ARG	G1063	20.975	104.979	54.361	1.00	42.77	7
ATOM	17199	C	ARG	G1063	25.568	106.153	50.089	1.00	42.82	6
ATOM	17200	O	ARG	G1063	24.900	105.440	49.359	1.00	42.84	8
ATOM	17201	N	GLU	G1064	25.395	107.458	50.155	1.00	54.47	7
ATOM	17202	CA	GLU	G1064	24.426	108.079	49.293	1.00	57.79	6
ATOM	17203	CB	GLU	G1064	23.579	109.118	50.042	1.00	122.75	6
ATOM	17204	CG	GLU	G1064	22.207	108.588	50.488	1.00	123.96	6
ATOM	17205	CD	GLU	G1064	21.188	109.692	50.762	1.00	124.45	6
ATOM	17206	OE1	GLU	G1064	20.889	110.479	49.834	1.00	123.97	8
ATOM	17207	OE2	GLU	G1064	20.681	109.766	51.904	1.00	124.30	8
ATOM	17208	C	GLU	G1064	25.221	108.727	48.184	1.00	58.91	6
ATOM	17209	O	GLU	G1064	25.444	109.925	48.186	1.00	59.88	8
ATOM	17210	N	GLY	G1065	25.678	107.899	47.256	1.00	134.40	7
ATOM	17211	CA	GLY	G1065	26.430	108.376	46.112	1.00	135.02	6
ATOM	17212	C	GLY	G1065	27.599	109.307	46.334	1.00	134.71	6
ATOM	17213	O	GLY	G1065	27.993	109.606	47.461	1.00	135.65	8
ATOM	17214	N	LEU	G1066	28.155	109.753	45.214	1.00	16.41	7
ATOM	17215	CA	LEU	G1066	29.276	110.665	45.187	1.00	14.33	6
ATOM	17216	CB	LEU	G1066	30.582	109.911	45.043	1.00	16.81	6
ATOM	17217	CG	LEU	G1066	31.847	110.745	45.107	1.00	13.87	6
ATOM	17218	CD1	LEU	G1066	31.761	111.586	46.317	1.00	13.87	6
ATOM	17219	CD2	LEU	G1066	33.064	109.868	45.196	1.00	13.87	6
ATOM	17220	C	LEU	G1066	28.988	111.375	43.920	1.00	15.38	6
ATOM	17221	O	LEU	G1066	29.885	111.650	43.142	1.00	15.39	8
ATOM	17222	N	THR	G1067	27.698	111.622	43.709	1.00	87.90	7
ATOM	17223	CA	THR	G1067	27.183	112.308	42.528	1.00	90.97	6
ATOM	17224	CB	THR	G1067	25.663	112.595	42.682			

ATOM	17240	CD1	LEU	G1069	29.130	114.628	36.582	1.00	36.78	6
ATOM	17241	CD2	LEU	G1069	31.371	113.669	37.099	1.00	35.23	6
ATOM	17242	C	LEU	G1069	32.175	115.034	39.936	1.00	51.26	6
ATOM	17243	O	LEU	G1069	32.662	115.443	38.876	1.00	50.85	8
ATOM	17244	N	GLU	G1070	32.674	115.325	41.129	1.00	77.89	7
ATOM	17245	CA	GLU	G1070	33.901	116.072	41.278	1.00	77.46	6
ATOM	17246	CB	GLU	G1070	33.995	116.663	42.687	1.00	149.79	6
ATOM	17247	CG	GLU	G1070	34.944	117.852	42.834	1.00	154.08	6
ATOM	17248	CD	GLU	G1070	34.408	119.136	42.207	1.00	156.34	6
ATOM	17249	OE1	GLU	G1070	33.355	119.643	42.655	1.00	157.77	8
ATOM	17250	OE2	GLU	G1070	35.044	119.642	41.263	1.00	157.61	8
ATOM	17251	C	GLU	G1070	34.837	114.885	41.126	1.00	75.60	6
ATOM	17252	O	GLU	G1070	36.051	115.038	41.034	1.00	75.21	8
ATOM	17253	N	TYR	G1071	34.209	113.699	41.108	1.00	107.97	7
ATOM	17254	CA	TYR	G1071	34.833	112.373	40.948	1.00	104.08	6
ATOM	17255	CB	TYR	G1071	33.936	111.493	40.055	1.00	35.29	6
ATOM	17256	CG	TYR	G1071	34.095	109.984	40.181	1.00	29.68	6
ATOM	17257	CD1	TYR	G1071	35.074	109.294	39.484	1.00	27.41	6
ATOM	17258	CE1	TYR	G1071	35.180	107.922	39.587	1.00	27.10	6
ATOM	17259	CD2	TYR	G1071	33.232	109.255	40.986	1.00	28.79	6
ATOM	17260	CE2	TYR	G1071	33.329	107.897	41.100	1.00	27.77	6
ATOM	17261	CZ	TYR	G1071	34.298	107.226	40.404	1.00	27.50	6
ATOM	17262	OH	TYR	G1071	34.366	105.852	40.545	1.00	26.32	8
ATOM	17263	C	TYR	G1071	36.168	112.562	40.275	1.00	103.87	6
ATOM	17264	O	TYR	G1071	37.174	111.960	40.652	1.00	104.64	8
ATOM	17265	N	PHE	G1072	36.150	113.414	39.260	1.00	38.33	7
ATOM	17266	CA	PHE	G1072	37.340	113.719	38.516	1.00	36.88	6
ATOM	17267	CB	PHE	G1072	37.058	114.821	37.511	1.00	29.37	6
ATOM	17268	CG	PHE	G1072	38.220	115.127	36.659	1.00	27.82	6
ATOM	17269	CD1	PHE	G1072	38.427	114.428	35.496	1.00	27.84	6
ATOM	17270	CD2	PHE	G1072	39.175	116.032	37.080	1.00	26.66	6
ATOM	17271	CE1	PHE	G1072	39.573	114.618	34.765	1.00	27.73	6
ATOM	17272	CE2	PHE	G1072	40.317	116.224	36.356	1.00	26.85	6
ATOM	17273	CZ	PHE	G1072	40.522	115.511	35.191	1.00	27.27	6
ATOM	17274	C	PHE	G1072	38.449	114.155	39.470	1.00	36.89	6
ATOM	17275	O	PHE	G1072	39.519	113.561	39.494	1.00	37.20	8
ATOM	17276	N	ILE	G1073	38.192	115.200	40.248	1.00	64.76	7
ATOM	17277	CA	ILE	G1073	39.165	115.696	41.209	1.00	64.05	6
ATOM	17278	CB	ILE	G1073	38.472	116.503	42.325	1.00	36.18	6
ATOM	17279	CG2	ILE	G1073	39.325	116.567	43.548	1.00	34.52	6
ATOM	17280	CG1	ILE	G1073	38.207	117.916	41.848	1.00	36.83	6
ATOM	17281	CD1	ILE	G1073	37.294	117.968	40.660	1.00	40.65	6
ATOM	17282	C	ILE	G1073	39.952	114.549	41.836	1.00	64.73	6
ATOM	17283	O	ILE	G1073	41.183	114.555	41.812	1.00	65.48	8
ATOM	17284	N	SER	G1074	39.241	113.563	42.385	1.00	44.20	7
ATOM	17285	CA	SER	G1074	39.886	112.413	43.025	1.00	43.60	6
ATOM	17286	CB	SER	G1074	38.945	111.771	44.044	1.00	51.58	6
ATOM	17287	OG	SER	G1074	37.888	111.099	43.391	1.00	51.10	8
ATOM	17288	C	SER	G1074	40.329	111.353	42.017	1.00	43.55	6
ATOM	17289	O	SER	G1074	41.104	110.461	42.364	1.00	43.93	8
ATOM	17290	N	SER	G1075	39.834	111.455	40.781	1.00	37.72	7
ATOM	17291	CA	SER	G1075	40.189	110.513	39.718	1.00	37.29	6
ATOM	17292	CB	SER	G1075	39.585	110.946	38.373	1.00	27.72	6
ATOM	17293	OG	SER	G1075	40.526	111.642	37.574	1.00	26.95	8
ATOM	17294	C	SER	G1075	41.708	110.472	39.615	1.00	37.29	6
ATOM	17295	O	SER	G1075	42.300	109.477	39.193	1.00	37.86	8

ATOM	17296	N	HIS	G1076	42.333	111.571	40.006	1.00	23.97	7
ATOM	17297	CA	HIS	G1076	43.778	111.651	39.994	1.00	24.01	6
ATOM	17298	CB	HIS	G1076	44.243	113.092	40.215	1.00	69.89	6
ATOM	17299	CG	HIS	G1076	43.531	114.103	39.367	1.00	71.73	6
ATOM	17300	CD2	HIS	G1076	42.223	114.236	39.045	1.00	72.14	6
ATOM	17301	ND1	HIS	G1076	44.178	115.171	38.784	1.00	73.19	7
ATOM	17302	CE1	HIS	G1076	43.300	115.919	38.141	1.00	72.53	6
ATOM	17303	NE2	HIS	G1076	42.106	115.373	38.285	1.00	72.39	7
ATOM	17304	C	HIS	G1076	44.227	110.775	41.155	1.00	22.98	6
ATOM	17305	O	HIS	G1076	43.972	109.579	41.143	1.00	22.29	8
ATOM	17306	N	GLY	G1077	44.877	111.379	42.146	1.00	29.05	7
ATOM	17307	CA	GLY	G1077	45.345	110.665	43.325	1.00	29.29	6
ATOM	17308	C	GLY	G1077	45.300	109.142	43.364	1.00	30.06	6
ATOM	17309	O	GLY	G1077	46.336	108.489	43.563	1.00	30.33	8
ATOM	17310	N	ALA	G1078	44.107	108.566	43.218	1.00	30.46	7
ATOM	17311	CA	ALA	G1078	43.969	107.113	43.221	1.00	31.01	6
ATOM	17312	CB	ALA	G1078	42.550	106.717	42.849	1.00	92.82	6
ATOM	17313	C	ALA	G1078	44.961	106.551	42.206	1.00	31.42	6
ATOM	17314	O	ALA	G1078	45.534	105.488	42.408	1.00	31.49	8
ATOM	17315	N	ARG	G1079	45.151	107.273	41.110	1.00	20.51	7
ATOM	17316	CA	ARG	G1079	46.105	106.867	40.094	1.00	21.30	6
ATOM	17317	CB	ARG	G1079	45.995	107.759	38.852	1.00	32.85	6
ATOM	17318	CG	ARG	G1079	44.744	107.540	37.979	1.00	30.64	6
ATOM	17319	CD	ARG	G1079	44.797	106.255	37.127	1.00	27.10	6
ATOM	17320	NE	ARG	G1079	44.452	106.510	35.730	1.00	21.58	7
ATOM	17321	CZ	ARG	G1079	45.223	107.188	34.897	1.00	19.55	6
ATOM	17322	NH1	ARG	G1079	46.374	107.670	35.318	1.00	20.65	7
ATOM	17323	NH2	ARG	G1079	44.846	107.388	33.654	1.00	15.90	7
ATOM	17324	C	ARG	G1079	47.536	106.943	40.650	1.00	23.49	6
ATOM	17325	O	ARG	G1079	48.287	105.982	40.543	1.00	23.18	8
ATOM	17326	N	LYS	G1080	47.943	108.069	41.232	1.00	49.26	7
ATOM	17327	CA	LYS	G1080	49.299	108.115	41.765	1.00	53.08	6
ATOM	17328	CB	LYS	G1080	49.632	109.465	42.413	1.00	71.79	6
ATOM	17329	CG	LYS	G1080	48.858	109.842	43.680	1.00	74.53	6
ATOM	17330	CD	LYS	G1080	49.271	111.268	44.115	1.00	75.99	6
ATOM	17331	CE	LYS	G1080	48.356	111.905	45.166	1.00	75.28	6
ATOM	17332	NZ	LYS	G1080	48.592	113.384	45.230	1.00	73.92	7
ATOM	17333	C	LYS	G1080	49.314	107.013	42.787	1.00	54.74	6
ATOM	17334	O	LYS	G1080	50.326	106.352	42.997	1.00	55.03	8
ATOM	17335	N	GLY	G1081	48.155	106.803	43.397	1.00	62.41	7
ATOM	17336	CA	GLY	G1081	48.013	105.747	44.376	1.00	65.40	6
ATOM	17337	C	GLY	G1081	47.994	104.403	43.665	1.00	66.82	6
ATOM	17338	O	GLY	G1081	47.412	103.428	44.148	1.00	66.69	8
ATOM	17339	N	GLY	G1082	48.637	104.361	42.504	1.00	41.64	7
ATOM	17340	CA	GLY	G1082	48.697	103.147	41.711	1.00	43.79	6
ATOM	17341	C	GLY	G1082	49.880	103.285	40.782	1.00	45.02	6
ATOM	17342	O	GLY	G1082	50.269	102.347	40.088	1.00	43.67	8
ATOM	17343	N	ALA	G1083	50.438	104.489	40.764	1.00	69.21	7
ATOM	17344	CA	ALA	G1083	51.602	104.776	39.952	1.00	71.61	6
ATOM	17345	CB	ALA	G1083	51.891	106.262	39.965	1.00	97.90	6
ATOM	17346	C	ALA	G1083	52.720	104.015	40.641	1.00	73.49	6
ATOM	17347	O	ALA	G1083	53.598	103.446	39.995	1.00	74.35	8
ATOM	17348	N	ASP	G1084	52.671	104.006	41.970	1.00	68.22	7
ATOM	17349	CA	ASP	G1084	53.671	103.300	42.757	1.00	70.05	6
ATOM	17350	CB	ASP	G1084	53.648	103.764	44.224	1.00	137.38	6
ATOM	17351	CG	ASP	G1084	54.382	105.092	44.438	1.00	138.90	6

ATOM	17352	OD1	ASP	G1084	55.593	105.179	44.131	1.00138.95	8
ATOM	17353	OD2	ASP	G1084	53.746	106.051	44.923	1.00140.40	8
ATOM	17354	C	ASP	G1084	53.432	101.796	42.662	1.00 70.56	6
ATOM	17355	O	ASP	G1084	54.378	101.027	42.549	1.00 70.04	8
ATOM	17356	N	THR	G1085	52.173	101.367	42.691	1.00 74.52	7
ATOM	17357	CA	THR	G1085	51.891	99.938	42.580	1.00 75.50	6
ATOM	17358	CB	THR	G1085	50.377	99.657	42.478	1.00 68.09	6
ATOM	17359	OG1	THR	G1085	49.876	100.134	41.220	1.00 68.24	8
ATOM	17360	CG2	THR	G1085	49.642	100.342	43.619	1.00 68.36	6
ATOM	17361	C	THR	G1085	52.588	99.415	41.324	1.00 76.40	6
ATOM	17362	O	THR	G1085	52.778	98.211	41.148	1.00 76.52	8
ATOM	17363	N	ALA	G1086	52.969	100.338	40.448	1.00 83.59	7
ATOM	17364	CA	ALA	G1086	53.669	99.979	39.232	1.00 84.65	6
ATOM	17365	CB	ALA	G1086	53.715	101.154	38.295	1.00 80.40	6
ATOM	17366	C	ALA	G1086	55.073	99.591	39.664	1.00 85.51	6
ATOM	17367	O	ALA	G1086	55.969	99.408	38.840	1.00 85.92	8
ATOM	17368	N	LEU	G1087	55.240	99.482	40.980	1.00102.04	7
ATOM	17369	CA	LEU	G1087	56.494	99.093	41.622	1.00103.66	6
ATOM	17370	CB	LEU	G1087	56.471	99.525	43.089	1.00121.59	6
ATOM	17371	CG	LEU	G1087	57.702	99.415	43.984	1.00122.48	6
ATOM	17372	CD1	LEU	G1087	58.753	100.432	43.564	1.00122.43	6
ATOM	17373	CD2	LEU	G1087	57.275	99.674	45.417	1.00121.96	6
ATOM	17374	C	LEU	G1087	56.531	97.569	41.542	1.00104.53	6
ATOM	17375	O	LEU	G1087	57.367	96.907	42.160	1.00105.07	8
ATOM	17376	N	ARG	G1088	55.589	97.031	40.775	1.00178.21	7
ATOM	17377	CA	ARG	G1088	55.448	95.598	40.576	1.00178.10	6
ATOM	17378	CB	ARG	G1088	54.368	95.336	39.520	1.00156.51	6
ATOM	17379	CG	ARG	G1088	54.021	93.872	39.324	1.00156.71	6
ATOM	17380	CD	ARG	G1088	52.731	93.715	38.533	1.00157.04	6
ATOM	17381	NE	ARG	G1088	52.366	92.311	38.367	1.00156.99	7
ATOM	17382	CZ	ARG	G1088	51.218	91.893	37.845	1.00156.86	6
ATOM	17383	NH1	ARG	G1088	50.312	92.770	37.436	1.00156.51	7
ATOM	17384	NH2	ARG	G1088	50.976	90.594	37.726	1.00156.68	7
ATOM	17385	C	ARG	G1088	56.761	94.944	40.162	1.00177.89	6
ATOM	17386	O	ARG	G1088	57.267	94.063	40.861	1.00178.39	8
ATOM	17387	N	THR	G1089	57.313	95.376	39.031	1.00 70.41	7
ATOM	17388	CA	THR	G1089	58.571	94.812	38.539	1.00 70.64	6
ATOM	17389	CB	THR	G1089	58.841	95.209	37.070	1.00 84.81	6
ATOM	17390	OG1	THR	G1089	57.656	95.016	36.292	1.00 85.76	8
ATOM	17391	CG2	THR	G1089	59.947	94.351	36.486	1.00 84.90	6
ATOM	17392	C	THR	G1089	59.719	95.335	39.393	1.00 70.04	6
ATOM	17393	O	THR	G1089	60.761	94.686	39.522	1.00 69.06	8
ATOM	17394	N	ALA	G1090	59.501	96.511	39.977	1.00194.50	7

ATOM	17408	CA	SER	G1092	61.987	92.244	40.984	1.00128.90	6
ATOM	17409	CB	SER	G1092	60.798	91.888	40.085	1.00194.76	6
ATOM	17410	OG	SER	G1092	61.005	90.645	39.433	1.00196.14	8
ATOM	17411	C	SER	G1092	63.224	92.582	40.145	1.00127.29	6
ATOM	17412	O	SER	G1092	63.170	92.691	38.918	1.00126.64	8
ATOM	17413	N	GLY	G1093	64.336	92.772	40.845	1.00143.66	7
ATOM	17414	CA	GLY	G1093	65.589	93.125	40.206	1.00140.25	6
ATOM	17415	C	GLY	G1093	66.301	94.153	41.067	1.00137.55	6
ATOM	17416	O	GLY	G1093	67.356	94.670	40.698	1.00137.13	8
ATOM	17417	N	TYR	G1094	65.708	94.439	42.226	1.00 54.22	7
ATOM	17418	CA	TYR	G1094	66.249	95.405	43.172	1.00 51.65	6
ATOM	17419	CB	TYR	G1094	65.610	96.781	42.948	1.00133.04	6
ATOM	17420	CG	TYR	G1094	66.599	97.922	42.786	1.00134.84	6
ATOM	17421	CD1	TYR	G1094	66.182	99.166	42.310	1.00136.73	6
ATOM	17422	CE1	TYR	G1094	67.093	100.212	42.119	1.00137.94	6
ATOM	17423	CD2	TYR	G1094	67.954	97.753	43.077	1.00134.57	6
ATOM	17424	CE2	TYR	G1094	68.866	98.790	42.891	1.00135.98	6
ATOM	17425	CZ	TYR	G1094	68.434	100.014	42.410	1.00137.81	6
ATOM	17426	OH	TYR	G1094	69.346	101.027	42.203	1.00138.02	8
ATOM	17427	C	TYR	G1094	66.022	94.969	44.619	1.00 48.98	6
ATOM	17428	O	TYR	G1094	65.163	94.136	44.922	1.00 47.60	8
ATOM	17429	N	LEU	G1095	66.811	95.572	45.500	1.00101.18	7
ATOM	17430	CA	LEU	G1095	66.794	95.321	46.933	1.00 96.70	6
ATOM	17431	CB	LEU	G1095	65.480	95.783	47.571	1.00 36.18	6
ATOM	17432	CG	LEU	G1095	65.765	96.383	48.956	1.00 33.82	6
ATOM	17433	CD1	LEU	G1095	66.802	97.447	48.793	1.00 33.91	6
ATOM	17434	CD2	LEU	G1095	64.532	96.993	49.585	1.00 32.66	6
ATOM	17435	C	LEU	G1095	67.076	93.874	47.283	1.00 94.62	6
ATOM	17436	O	LEU	G1095	68.241	93.487	47.325	1.00 95.74	8
ATOM	17437	N	THR	G1096	66.043	93.069	47.531	1.00 48.39	7
ATOM	17438	CA	THR	G1096	66.287	91.671	47.886	1.00 44.22	6
ATOM	17439	CB	THR	G1096	65.072	90.764	47.691	1.00 41.35	6
ATOM	17440	OG1	THR	G1096	64.002	91.198	48.527	1.00 42.13	8
ATOM	17441	CG2	THR	G1096	65.423	89.347	48.074	1.00 39.86	6
ATOM	17442	C	THR	G1096	67.370	91.119	46.996	1.00 43.15	6
ATOM	17443	O	THR	G1096	68.358	90.571	47.483	1.00 43.99	8
ATOM	17444	N	ARG	G1097	67.184	91.271	45.687	1.00 29.03	7
ATOM	17445	CA	ARG	G1097	68.159	90.766	44.732	1.00 25.02	6
ATOM	17446	CB	ARG	G1097	67.828	91.212	43.310	1.00 28.45	6
ATOM	17447	CG	ARG	G1097	68.784	90.655	42.277	1.00 23.84	6
ATOM	17448	CD	ARG	G1097	68.499	91.168	40.869	1.00 19.46	6
ATOM	17449	NE	ARG	G1097	67.263	90.635	40.304	1.00 16.77	7
ATOM	17450	CZ	ARG	G1097	66.919	89.351	40.308	1.00 16.55	6
ATOM	17451	NH1	ARG	G1097	67.714	88.452	40.853	1.00 15.75	7
ATOM	17452	NH2	ARG	G1097	65.780	88.961	39.759	1.00 17.24	7
ATOM	17453	C	ARG	G1097	69.519	91.279	45.124	1.00 24.71	6
ATOM	17454	O	ARG	G1097	70.469	90.514	45.179	1.00 23.96	8
ATOM	17455	N	LYS	G1098	69.598	92.572	45.426	1.00 46.29	7
ATOM	17456	CA	LYS	G1098	70.860	93.191	45.814	1.00 47.25	6
ATOM	17457	CB	LYS	G1098	70.722	94.709	45.744	1.00 73.47	6
ATOM	17458	CG	LYS	G1098	70.735	95.226	44.313	1.00 77.29	6
ATOM	17459	CD	LYS	G1098	70.969	96.726	44.262	1.00 80.57	6
ATOM	17460	CE	LYS	G1098	71.525	97.160	42.908	1.00 82.23	6
ATOM	17461	NZ	LYS	G1098	71.750	98.636	42.861	1.00 84.21	7
ATOM	17462	C	LYS	G1098	71.426	92.760	47.174	1.00 45.94	6
ATOM	17463	O	LYS	G1098	72.601	92.402	47.275	1.00 45.56	8

ATOM	17464	N	LEU	G1099	70.601	92.800	48.213	1.00	15.40	7
ATOM	17465	CA	LEU	G1099	71.036	92.388	49.534	1.00	13.87	6
ATOM	17466	CB	LEU	G1099	69.944	92.639	50.582	1.00	18.91	6
ATOM	17467	CG	LEU	G1099	69.566	94.053	51.039	1.00	17.91	6
ATOM	17468	CD1	LEU	G1099	68.710	94.779	50.010	1.00	17.09	6
ATOM	17469	CD2	LEU	G1099	68.801	93.919	52.332	1.00	17.63	6
ATOM	17470	C	LEU	G1099	71.363	90.900	49.513	1.00	14.40	6
ATOM	17471	O	LEU	G1099	72.361	90.476	50.091	1.00	15.05	8
ATOM	17472	N	VAL	G1100	70.517	90.103	48.856	1.00	42.02	7
ATOM	17473	CA	VAL	G1100	70.729	88.651	48.780	1.00	42.77	6
ATOM	17474	CB	VAL	G1100	69.726	87.952	47.814	1.00	35.80	6
ATOM	17475	CG1	VAL	G1100	70.199	86.554	47.521	1.00	35.22	6
ATOM	17476	CG2	VAL	G1100	68.346	87.882	48.429	1.00	36.82	6
ATOM	17477	C	VAL	G1100	72.134	88.335	48.298	1.00	43.84	6
ATOM	17478	O	VAL	G1100	72.677	87.269	48.601	1.00	43.89	8
ATOM	17479	N	ASP	G1101	72.707	89.267	47.539	1.00	44.54	7
ATOM	17480	CA	ASP	G1101	74.048	89.115	46.999	1.00	44.01	6
ATOM	17481	CB	ASP	G1101	74.198	89.914	45.707	1.00	34.48	6
ATOM	17482	CG	ASP	G1101	73.492	89.251	44.533	1.00	35.27	6
ATOM	17483	OD1	ASP	G1101	73.459	87.999	44.524	1.00	33.92	8
ATOM	17484	OD2	ASP	G1101	72.986	89.958	43.619	1.00	35.56	8
ATOM	17485	C	ASP	G1101	75.108	89.539	47.995	1.00	44.61	6
ATOM	17486	O	ASP	G1101	76.209	88.999	47.992	1.00	45.63	8
ATOM	17487	N	VAL	G1102	74.773	90.500	48.852	1.00	42.29	7
ATOM	17488	CA	VAL	G1102	75.699	90.991	49.867	1.00	42.96	6
ATOM	17489	CB	VAL	G1102	75.353	92.393	50.313	1.00	19.63	6
ATOM	17490	CG1	VAL	G1102	76.338	92.845	51.345	1.00	18.89	6
ATOM	17491	CG2	VAL	G1102	75.350	93.317	49.142	1.00	18.39	6
ATOM	17492	C	VAL	G1102	75.661	90.123	51.103	1.00	44.74	6
ATOM	17493	O	VAL	G1102	76.650	90.027	51.816	1.00	44.43	8
ATOM	17494	N	ALA	G1103	74.503	89.528	51.372	1.00	54.22	7
ATOM	17495	CA	ALA	G1103	74.335	88.646	52.515	1.00	56.42	6
ATOM	17496	CB	ALA	G1103	72.882	88.605	52.934	1.00	99.83	6
ATOM	17497	C	ALA	G1103	74.792	87.270	52.058	1.00	57.74	6
ATOM	17498	O	ALA	G1103	75.655	87.172	51.197	1.00	58.10	8
ATOM	17499	N	HIS	G1104	74.198	86.213	52.606	1.00	98.67	7
ATOM	17500	CA	HIS	G1104	74.559	84.830	52.267	1.00	99.80	6
ATOM	17501	CB	HIS	G1104	74.088	84.469	50.839	1.00	68.73	6
ATOM	17502	CG	HIS	G1104	75.128	84.600	49.770	1.00	71.34	6
ATOM	17503	CD2	HIS	G1104	75.330	85.561	48.837	1.00	72.06	6
ATOM	17504	ND1	HIS	G1104	76.065	83.622	49.519	1.00	72.73	7
ATOM	17505	CE1	HIS	G1104	76.796	83.973	48.476	1.00	74.18	6
ATOM	17506	NE2	HIS	G1104	76.370	85.146	48.043	1.00	74.66	7
ATOM	17507	C	HIS	G1104	76.056	84.662	52.472	1.00	99.23	6
ATOM	17508	O	HIS	G1104	76.767	85.650	52.627	1.00	100.11	8
ATOM	17509	N	GLU	G1105	76.549	83.430	52.504	1.00	48.15	7
ATOM	17510	CA	GLU	G1105	77.969	83.234	52.787	1.00	47.26	6
ATOM	17511	CB	GLU	G1105	78.838	84.099	51.874	1.00	66.71	6
ATOM	17512	CG	GLU	G1105	80.222	84.396	52.415	1.00	67.87	6
ATOM	17513	CD	GLU	G1105	80.555	85.873	52.341	1.00	68.89	6
ATOM	17514	OE1	GLU	G1105	79.711	86.691	52.770	1.00	67.97	8
ATOM	17515	OE2	GLU	G1105	81.661	86.214	51.862	1.00	70.37	8
ATOM	17516	C	GLU	G1105	78.092	83.733	54.221	1.00	46.84	6
ATOM	17517	O	GLU	G1105	79.159	83.714	54.827	1.00	48.11	8
ATOM	17518	N	ILE	G1106	76.960	84.189	54.742	1.00	53.44	7
ATOM	17519	CA	ILE	G1106	76.830	84.722	56.085	1.00	51.14	6

ATOM	17520	CB	ILE	G1106	76.142	86.124	56.027	1.00	15.21	6
ATOM	17521	CG2	ILE	G1106	75.818	86.656	57.388	1.00	14.34	6
ATOM	17522	CG1	ILE	G1106	77.089	87.117	55.382	1.00	14.30	6
ATOM	17523	CD1	ILE	G1106	78.412	87.180	56.084	1.00	15.16	6
ATOM	17524	C	ILE	G1106	75.950	83.714	56.793	1.00	50.82	6
ATOM	17525	O	ILE	G1106	74.735	83.842	56.785	1.00	51.03	8
ATOM	17526	N	VAL	G1107	76.559	82.696	57.387	1.00	17.44	7
ATOM	17527	CA	VAL	G1107	75.782	81.665	58.071	1.00	17.20	6
ATOM	17528	CB	VAL	G1107	75.922	80.319	57.335	1.00	19.16	6
ATOM	17529	CG1	VAL	G1107	75.114	79.254	58.039	1.00	20.01	6
ATOM	17530	CG2	VAL	G1107	75.473	80.470	55.893	1.00	17.33	6
ATOM	17531	C	VAL	G1107	76.127	81.459	59.549	1.00	18.68	6
ATOM	17532	O	VAL	G1107	77.233	81.724	59.980	1.00	19.66	8
ATOM	17533	N	VAL	G1108	75.160	80.998	60.326	1.00	45.65	7
ATOM	17534	CA	VAL	G1108	75.378	80.751	61.740	1.00	47.62	6
ATOM	17535	CB	VAL	G1108	74.056	80.354	62.422	1.00	55.91	6
ATOM	17536	CG1	VAL	G1108	74.293	80.000	63.867	1.00	56.80	6
ATOM	17537	CG2	VAL	G1108	73.061	81.485	62.307	1.00	55.44	6
ATOM	17538	C	VAL	G1108	76.378	79.607	61.848	1.00	49.77	6
ATOM	17539	O	VAL	G1108	76.005	78.435	61.777	1.00	50.63	8
ATOM	17540	N	ARG	G1109	77.652	79.947	62.006	1.00	53.06	7
ATOM	17541	CA	ARG	G1109	78.701	78.936	62.106	1.00	53.93	6
ATOM	17542	CB	ARG	G1109	79.727	79.139	60.994	1.00	54.75	6
ATOM	17543	CG	ARG	G1109	79.117	79.547	59.665	1.00	54.83	6
ATOM	17544	CD	ARG	G1109	80.168	79.715	58.586	1.00	55.76	6
ATOM	17545	NE	ARG	G1109	79.608	80.345	57.398	1.00	58.64	7
ATOM	17546	CZ	ARG	G1109	80.107	80.194	56.177	1.00	60.66	6
ATOM	17547	NH1	ARG	G1109	81.173	79.431	55.996	1.00	62.22	7
ATOM	17548	NH2	ARG	G1109	79.543	80.792	55.135	1.00	61.45	7
ATOM	17549	C	ARG	G1109	79.397	79.064	63.447	1.00	55.14	6
ATOM	17550	O	ARG	G1109	79.948	80.118	63.739	1.00	56.53	8
ATOM	17551	N	GLU	G1110	79.354	77.997	64.248	1.00	69.74	7
ATOM	17552	CA	GLU	G1110	79.978	77.929	65.580	1.00	70.44	6
ATOM	17553	CB	GLU	G1110	81.361	78.608	65.580	1.00	29.53	6
ATOM	17554	CG	GLU	G1110	81.372	80.083	65.958	1.00	27.59	6
ATOM	17555	CD	GLU	G1110	82.728	80.726	65.753	1.00	27.62	6
ATOM	17556	OE1	GLU	G1110	83.703	80.239	66.369	1.00	28.62	8
ATOM	17557	OE2	GLU	G1110	82.816	81.713	64.978	1.00	26.76	8
ATOM	17558	C	GLU	G1110	79.130	78.504	66.714	1.00	71.85	6
ATOM	17559	O	GLU	G1110	77.916	78.575	66.624	1.00	72.65	8
ATOM	17560	N	ALA	G1111	79.777	78.897	67.801	1.00	70.73	7
ATOM	17561	CA	ALA	G1111	79.048	79.459	68.922	1.00	71.48	6
ATOM	17562	CB	ALA	G1111	78.464	78.335	69.781	1.00	13.87	6
ATOM	17563	C	ALA	G1111	79.922	80.388	69.769	1.00	73.10	6
ATOM	17564	O	ALA	G1111	81.158	80.359	69.681	1.00	73.20	8
ATOM	17565	N	ALA	G1112	79.247	81.215	70.571	1.00	149.19	7
ATOM	17566	CA	ALA	G1112	79.857	82.195	71.475	1.00	150.93	6
ATOM	17567	CB	ALA	G1112	79.488	81.860	72.920	1.00	126.92	6
ATOM	17568	C	ALA	G1112	81.365	82.323	71.350	1.00	151.11	6
ATOM	17569	O	ALA	G1112	82.088	82.123	72.324	1.00	151.26	8
ATOM	17570	N	CYS	G1113	81.829	82.667	70.153	1.00	86.03	7
ATOM	17571	CA	CYS	G1113	83.251	82.818	69.893	1.00	85.94	6
ATOM	17572	CB	CYS	G1113	83.468	83.616	68.610	1.00	58.96	6
ATOM	17573	SG	CYS	G1113	82.777	85.280	68.651	1.00	57.92	16
ATOM	17574	C	CYS	G1113	83.944	83.523	71.047	1.00	86.24	6
ATOM	17575	O	CYS	G1113	84.355	82.889	72.019	1.00	86.35	8



ATOM	17576	N	GLY	G1114	84.073	84.839	70.934	1.00	68.89	7
ATOM	17577	CA	GLY	G1114	84.715	85.615	71.976	1.00	69.12	6
ATOM	17578	C	GLY	G1114	84.082	86.984	72.042	1.00	68.79	6
ATOM	17579	O	GLY	G1114	84.363	87.840	71.204	1.00	68.51	8
ATOM	17580	N	ALA	G1115	83.220	87.181	73.034	1.00	69.28	7
ATOM	17581	CA	ALA	G1115	82.523	88.450	73.217	1.00	69.62	6
ATOM	17582	CB	ALA	G1115	81.777	88.448	74.550	1.00	127.54	6
ATOM	17583	C	ALA	G1115	83.490	89.626	73.164	1.00	69.24	6
ATOM	17584	O	ALA	G1115	83.977	90.000	72.092	1.00	68.67	8
ATOM	17585	N	ALA	G1116	83.759	90.214	74.322	1.00	92.92	7
ATOM	17586	CA	ALA	G1116	84.674	91.333	74.382	1.00	92.82	6
ATOM	17587	CB	ALA	G1116	86.066	90.880	73.961	1.00	98.99	6
ATOM	17588	C	ALA	G1116	84.199	92.460	73.476	1.00	92.10	6
ATOM	17589	O	ALA	G1116	84.972	93.359	73.142	1.00	93.50	8
ATOM	17590	N	ALA	G1117	82.937	92.407	73.063	1.00	76.64	7
ATOM	17591	CA	ALA	G1117	82.377	93.451	72.206	1.00	74.11	6
ATOM	17592	CB	ALA	G1117	82.894	93.316	70.791	1.00	43.28	6
ATOM	17593	C	ALA	G1117	80.856	93.404	72.227	1.00	72.27	6
ATOM	17594	O	ALA	G1117	80.254	92.344	72.342	1.00	71.97	8
ATOM	17595	N	ALA	G1118	80.238	94.568	72.106	1.00	31.47	7
ATOM	17596	CA	ALA	G1118	78.801	94.670	72.167	1.00	28.93	6
ATOM	17597	CB	ALA	G1118	78.383	94.776	73.618	1.00	13.87	6
ATOM	17598	C	ALA	G1118	78.342	95.900	71.400	1.00	28.09	6
ATOM	17599	O	ALA	G1118	79.118	96.528	70.689	1.00	27.74	8
ATOM	17600	N	ILE	G1119	77.063	96.223	71.545	1.00	46.47	7
ATOM	17601	CA	ILE	G1119	76.441	97.383	70.909	1.00	45.45	6
ATOM	17602	CB	ILE	G1119	75.636	97.019	69.627	1.00	35.54	6
ATOM	17603	CG2	ILE	G1119	75.325	98.261	68.810	1.00	34.58	6
ATOM	17604	CG1	ILE	G1119	76.414	96.028	68.777	1.00	34.64	6
ATOM	17605	CD1	ILE	G1119	76.379	94.635	69.339	1.00	35.67	6
ATOM	17606	C	ILE	G1119	75.425	97.711	71.972	1.00	45.61	6
ATOM	17607	O	ILE	G1119	74.536	96.901	72.224	1.00	45.90	8
ATOM	17608	N	SER	G1120	75.542	98.858	72.623	1.00	37.17	7
ATOM	17609	CA	SER	G1120	74.560	99.159	73.645	1.00	36.77	6
ATOM	17610	CB	SER	G1120	75.193	99.967	74.772	1.00	44.93	6
ATOM	17611	OG	SER	G1120	75.383	99.135	75.910	1.00	46.11	8
ATOM	17612	C	SER	G1120	73.344	99.871	73.066	1.00	36.37	6
ATOM	17613	O	SER	G1120	73.306	101.097	72.985	1.00	37.49	8
ATOM	17614	N	VAL	G1121	72.349	99.076	72.667	1.00	32.16	7
ATOM	17615	CA	VAL	G1121	71.122	99.582	72.071	1.00	30.39	6
ATOM	17616	CB	VAL	G1121	70.135	98.460	71.824	1.00	58.71	6
ATOM	17617	CG1	VAL	G1121	69.005					

ATOM	17632	CD1	LEU	G1123	67.235	100.180	75.409	1.00	16.38	6
ATOM	17633	CD2	LEU	G1123	65.792	100.068	77.399	1.00	17.40	6
ATOM	17634	C	LEU	G1123	65.540	104.308	74.850	1.00	91.01	6
ATOM	17635	O	LEU	G1123	64.337	104.525	75.016	1.00	92.76	8
ATOM	17636	N	PHE	G1124	66.443	105.270	74.699	1.00	48.00	7
ATOM	17637	CA	PHE	G1124	66.096	106.682	74.677	1.00	47.33	6
ATOM	17638	CB	PHE	G1124	66.771	107.425	75.832	1.00	29.41	6
ATOM	17639	CG	PHE	G1124	66.153	107.188	77.182	1.00	26.55	6
ATOM	17640	CD1	PHE	G1124	65.100	107.969	77.623	1.00	25.74	6
ATOM	17641	CD2	PHE	G1124	66.660	106.210	78.036	1.00	25.58	6
ATOM	17642	CE1	PHE	G1124	64.560	107.783	78.902	1.00	25.32	6
ATOM	17643	CE2	PHE	G1124	66.126	106.015	79.314	1.00	24.75	6
ATOM	17644	CZ	PHE	G1124	65.074	106.805	79.748	1.00	24.40	6
ATOM	17645	C	PHE	G1124	66.706	107.170	73.370	1.00	49.32	6
ATOM	17646	O	PHE	G1124	67.845	106.815	73.058	1.00	48.69	8
ATOM	17647	N	GLN	G1125	65.954	107.964	72.610	1.00	50.63	7
ATOM	17648	CA	GLN	G1125	66.434	108.526	71.343	1.00	54.26	6
ATOM	17649	CB	GLN	G1125	65.771	107.834	70.149	1.00	111.66	6
ATOM	17650	CG	GLN	G1125	66.695	106.889	69.378	1.00	115.56	6
ATOM	17651	CD	GLN	G1125	67.815	107.617	68.649	1.00	116.51	6
ATOM	17652	OE1	GLN	G1125	67.568	108.404	67.732	1.00	117.20	8
ATOM	17653	NE2	GLN	G1125	69.053	107.355	69.054	1.00	116.80	7
ATOM	17654	C	GLN	G1125	66.112	110.012	71.311	1.00	55.90	6
ATOM	17655	O	GLN	G1125	65.425	110.518	72.203	1.00	55.43	8
ATOM	17656	N	MET	G1126	66.590	110.723	70.292	1.00	64.27	7
ATOM	17657	CA	MET	G1126	66.316	112.156	70.234	1.00	67.94	6
ATOM	17658	CB	MET	G1126	67.529	112.938	70.719	1.00	71.09	6
ATOM	17659	CG	MET	G1126	67.189	114.350	71.142	1.00	70.18	6
ATOM	17660	SD	MET	G1126	68.650	115.351	71.215	1.00	70.84	16
ATOM	17661	CE	MET	G1126	69.645	114.448	72.460	1.00	69.37	6
ATOM	17662	C	MET	G1126	65.843	112.772	68.917	1.00	70.21	6
ATOM	17663	O	MET	G1126	66.120	112.280	67.822	1.00	71.17	8
ATOM	17664	N	ASP	G1127	65.136	113.886	69.069	1.00	83.97	7
ATOM	17665	CA	ASP	G1127	64.571	114.660	67.973	1.00	85.60	6
ATOM	17666	CB	ASP	G1127	63.141	115.068	68.372	1.00	90.36	6
ATOM	17667	CG	ASP	G1127	62.640	116.303	67.648	1.00	90.91	6
ATOM	17668	OD1	ASP	G1127	63.040	117.425	68.032	1.00	90.86	8
ATOM	17669	OD2	ASP	G1127	61.836	116.149	66.701	1.00	90.61	8
ATOM	17670	C	ASP	G1127	65.461	115.880	67.709	1.00	86.98	6
ATOM	17671	O	ASP	G1127	65.397	116.873	68.437	1.00	87.91	8
ATOM	17672	N	GLU	G1128	66.301	115.791	66.676	1.00	69.91	7
ATOM	17673	CA	GLU	G1128	67.215	116.883	66.318	1.00	70.82	6
ATOM	17674	CB	GLU	G1128	67.917	116.591	64.986	1.00	119.73	6
ATOM	17675	CG	GLU	G1128	68.731	115.307	64.970	1.00	121.05	6
ATOM	17676	CD	GLU	G1128	69.453	115.076	63.650	1.00	122.37	6
ATOM	17677	OE1	GLU	G1128	68.792	115.067	62.587	1.00	123.48	8
ATOM	17678	OE2	GLU	G1128	70.688	114.897	63.681	1.00	122.49	8
ATOM	17679	C	GLU	G1128	66.499	118.227	66.216	1.00	71.11	6
ATOM	17680	O	GLU	G1128	67.143	119.273	66.270	1.00	70.66	8
ATOM	17681	N	VAL	G1129	65.173	118.182	66.062	1.00	27.26	7
ATOM	17682	CA	VAL	G1129	64.337	119.374	65.953	1.00	28.36	6
ATOM	17683	CB	VAL	G1129	62.840	119.013	65.839	1.00	195.38	6
ATOM	17684	CG1	VAL	G1129	61.997	120.277	65.767	1.00	196.97	6
ATOM	17685	CG2	VAL	G1129	62.607	118.150	64.614	1.00	196.60	6
ATOM	17686	C	VAL	G1129	64.534	120.231	67.179	1.00	27.77	6
ATOM	17687	O	VAL	G1129	65.180	121.267	67.103	1.00	27.79	8

ATOM	17688	N	THR	G1130	63.980	119.803	68.310	1.00	79.94	7
ATOM	17689	CA	THR	G1130	64.126	120.558	69.552	1.00	82.10	6
ATOM	17690	CB	THR	G1130	62.772	121.030	70.086	1.00	111.33	6
ATOM	17691	OG1	THR	G1130	61.956	121.466	68.993	1.00	112.30	8
ATOM	17692	CG2	THR	G1130	62.969	122.195	71.055	1.00	112.94	6
ATOM	17693	C	THR	G1130	64.795	119.692	70.609	1.00	83.35	6
ATOM	17694	O	THR	G1130	64.146	119.186	71.520	1.00	84.33	8
ATOM	17695	N	ARG	G1131	66.108	119.544	70.460	1.00	64.02	7
ATOM	17696	CA	ARG	G1131	66.956	118.741	71.334	1.00	65.04	6
ATOM	17697	CB	ARG	G1131	68.240	119.503	71.674	1.00	77.20	6
ATOM	17698	CG	ARG	G1131	68.967	120.133	70.496	1.00	75.94	6
ATOM	17699	CD	ARG	G1131	68.374	121.490	70.138	1.00	75.39	6
ATOM	17700	NE	ARG	G1131	69.361	122.378	69.527	1.00	74.87	7
ATOM	17701	CZ	ARG	G1131	70.494	122.753	70.119	1.00	75.39	6
ATOM	17702	NH1	ARG	G1131	70.789	122.321	71.333	1.00	75.70	7
ATOM	17703	NH2	ARG	G1131	71.342	123.563	69.505	1.00	76.69	7
ATOM	17704	C	ARG	G1131	66.288	118.299	72.627	1.00	66.57	6
ATOM	17705	O	ARG	G1131	66.400	118.972	73.650	1.00	67.44	8
ATOM	17706	N	THR	G1132	65.606	117.160	72.590	1.00	110.70	7
ATOM	17707	CA	THR	G1132	64.943	116.652	73.783	1.00	112.07	6
ATOM	17708	CB	THR	G1132	63.589	117.358	74.014	1.00	142.97	6
ATOM	17709	OG1	THR	G1132	63.800	118.770	74.154	1.00	143.10	8
ATOM	17710	CG2	THR	G1132	62.922	116.827	75.277	1.00	143.32	6
ATOM	17711	C	THR	G1132	64.703	115.151	73.702	1.00	112.98	6
ATOM	17712	O	THR	G1132	63.730	114.707	73.093	1.00	114.26	8
ATOM	17713	N	LEU	G1133	65.592	114.378	74.321	1.00	130.03	7
ATOM	17714	CA	LEU	G1133	65.485	112.923	74.327	1.00	129.99	6
ATOM	17715	CB	LEU	G1133	66.421	112.329	75.373	1.00	113.82	6
ATOM	17716	CG	LEU	G1133	67.911	112.597	75.172	1.00	115.74	6
ATOM	17717	CD1	LEU	G1133	68.641	112.271	76.457	1.00	115.14	6
ATOM	17718	CD2	LEU	G1133	68.454	111.775	74.005	1.00	116.19	6
ATOM	17719	C	LEU	G1133	64.063	112.492	74.634	1.00	129.63	6
ATOM	17720	O	LEU	G1133	63.295	113.246	75.226	1.00	130.87	8
ATOM	17721	N	ARG	G1134	63.720	111.273	74.237	1.00	58.57	7
ATOM	17722	CA	ARG	G1134	62.381	110.747	74.463	1.00	57.49	6
ATOM	17723	CB	ARG	G1134	61.524	110.974	73.213	1.00	165.44	6
ATOM	17724	CG	ARG	G1134	60.141	110.320	73.225	1.00	167.83	6
ATOM	17725	CD	ARG	G1134	59.116	111.095	74.049	1.00	169.50	6
ATOM	17726	NE	ARG	G1134	57.753	110.639	73.767	1.00	171.23	7
ATOM	17727	CZ	ARG	G1134	56.653	111.190	74.274	1.00	173.32	6
ATOM	17728	NH1	ARG	G1134	56.742	112.225	75.			

ATOM	17744	CD	ARG	G1136	64.776	103.499	70.627	1.00	59.47	6
ATOM	17745	NE	ARG	G1136	65.057	103.071	69.261	1.00	58.71	7
ATOM	17746	CZ	ARG	G1136	65.798	102.007	68.954	1.00	59.04	6
ATOM	17747	NH1	ARG	G1136	66.330	101.265	69.917	1.00	58.01	7
ATOM	17748	NH2	ARG	G1136	66.002	101.672	67.685	1.00	59.42	7
ATOM	17749	C	ARG	G1136	60.623	104.722	72.389	1.00	55.16	6
ATOM	17750	O	ARG	G1136	60.118	104.300	73.428	1.00	55.68	8
ATOM	17751	N	LYS	G1137	60.029	104.575	71.209	1.00	61.13	7
ATOM	17752	CA	LYS	G1137	58.722	103.920	71.152	1.00	60.84	6
ATOM	17753	CB	LYS	G1137	58.061	104.136	69.788	1.00	57.63	6
ATOM	17754	CG	LYS	G1137	58.958	103.834	68.624	1.00	59.33	6
ATOM	17755	CD	LYS	G1137	58.262	104.048	67.289	1.00	61.19	6
ATOM	17756	CE	LYS	G1137	59.247	103.881	66.135	1.00	62.98	6
ATOM	17757	NZ	LYS	G1137	58.628	104.071	64.800	1.00	64.64	7
ATOM	17758	C	LYS	G1137	58.714	102.436	71.514	1.00	60.86	6
ATOM	17759	O	LYS	G1137	59.581	101.656	71.102	1.00	60.08	8
ATOM	17760	N	ARG	G1138	57.715	102.079	72.315	1.00	173.33	7
ATOM	17761	CA	ARG	G1138	57.506	100.719	72.795	1.00	174.09	6
ATOM	17762	CB	ARG	G1138	56.207	100.655	73.616	1.00	114.23	6
ATOM	17763	CG	ARG	G1138	55.425	101.977	73.685	1.00	115.53	6
ATOM	17764	CD	ARG	G1138	54.776	102.332	72.353	1.00	116.52	6
ATOM	17765	NE	ARG	G1138	54.181	103.664	72.375	1.00	118.54	7
ATOM	17766	CZ	ARG	G1138	53.394	104.148	71.419	1.00	119.91	6
ATOM	17767	NH1	ARG	G1138	53.097	103.413	70.357	1.00	119.84	7
ATOM	17768	NH2	ARG	G1138	52.901	105.372	71.523	1.00	120.68	7
ATOM	17769	C	ARG	G1138	57.440	99.734	71.638	1.00	173.24	6
ATOM	17770	O	ARG	G1138	56.417	99.089	71.414	1.00	175.43	8
ATOM	17771	N	SER	G1139	58.544	99.621	70.909	1.00	90.68	7
ATOM	17772	CA	SER	G1139	58.616	98.724	69.764	1.00	86.88	6
ATOM	17773	CB	SER	G1139	57.782	99.269	68.593	1.00	36.28	6
ATOM	17774	OG	SER	G1139	57.935	98.481	67.421	1.00	32.66	8
ATOM	17775	C	SER	G1139	60.048	98.541	69.306	1.00	84.63	6
ATOM	17776	O	SER	G1139	60.606	97.450	69.433	1.00	84.85	8
ATOM	17777	N	ASP	G1140	60.638	99.614	68.777	1.00	58.25	7
ATOM	17778	CA	ASP	G1140	62.006	99.562	68.270	1.00	53.75	6
ATOM	17779	CB	ASP	G1140	62.511	100.959	67.959	1.00	66.26	6
ATOM	17780	CG	ASP	G1140	61.431	101.847	67.418	1.00	66.48	6
ATOM	17781	OD1	ASP	G1140	60.700	101.406	66.503	1.00	66.87	8
ATOM	17782	OD2	ASP	G1140	61.322	102.988	67.906	1.00	67.08	8
ATOM	17783	C	ASP	G1140	62.910	98.918	69.290	1.00	50.32	6
ATOM	17784	O	ASP	G1140	63.761	98.102	68.948	1.00	49.17	

ATOM	17800	C	GLU	G1142	62.347	94.802	70.003	1.00	55.54	6
ATOM	17801	O	GLU	G1142	62.745	93.649	69.864	1.00	54.54	8
ATOM	17802	N	SER	G1143	62.277	95.686	69.022	1.00	45.57	7
ATOM	17803	CA	SER	G1143	62.705	95.385	67.679	1.00	42.50	6
ATOM	17804	CB	SER	G1143	62.168	96.447	66.715	1.00	23.64	6
ATOM	17805	OG	SER	G1143	61.788	95.882	65.473	1.00	20.91	8
ATOM	17806	C	SER	G1143	64.226	95.411	67.712	1.00	40.89	6
ATOM	17807	O	SER	G1143	64.878	94.874	66.828	1.00	41.57	8
ATOM	17808	N	GLY	G1144	64.783	96.023	68.753	1.00	32.49	7
ATOM	17809	CA	GLY	G1144	66.229	96.102	68.887	1.00	32.11	6
ATOM	17810	C	GLY	G1144	66.815	95.201	69.966	1.00	31.50	6
ATOM	17811	O	GLY	G1144	68.032	95.009	70.052	1.00	31.35	8
ATOM	17812	N	LEU	G1145	65.944	94.624	70.782	1.00	57.42	7
ATOM	17813	CA	LEU	G1145	66.393	93.763	71.853	1.00	55.12	6
ATOM	17814	CB	LEU	G1145	65.964	94.346	73.193	1.00	16.96	6
ATOM	17815	CG	LEU	G1145	66.481	95.743	73.548	1.00	14.26	6
ATOM	17816	CD1	LEU	G1145	65.982	96.114	74.936	1.00	13.87	6
ATOM	17817	CD2	LEU	G1145	68.001	95.775	73.492	1.00	13.87	6
ATOM	17818	C	LEU	G1145	65.906	92.328	71.752	1.00	55.41	6
ATOM	17819	O	LEU	G1145	66.695	91.396	71.897	1.00	57.87	8
ATOM	17820	N	TYR	G1146	64.614	92.137	71.504	1.00	29.27	7
ATOM	17821	CA	TYR	G1146	64.066	90.777	71.418	1.00	27.78	6
ATOM	17822	CB	TYR	G1146	62.729	90.781	70.682	1.00	21.95	6
ATOM	17823	CG	TYR	G1146	62.075	89.423	70.597	1.00	20.28	6
ATOM	17824	CD1	TYR	G1146	60.697	89.308	70.495	1.00	20.32	6
ATOM	17825	CE1	TYR	G1146	60.088	88.063	70.389	1.00	19.89	6
ATOM	17826	CD2	TYR	G1146	62.829	88.254	70.594	1.00	19.89	6
ATOM	17827	CE2	TYR	G1146	62.237	87.006	70.489	1.00	19.67	6
ATOM	17828	CZ	TYR	G1146	60.864	86.911	70.382	1.00	20.14	6
ATOM	17829	OH	TYR	G1146	60.268	85.669	70.230	1.00	19.11	8
ATOM	17830	C	TYR	G1146	64.973	89.752	70.755	1.00	28.02	6
ATOM	17831	O	TYR	G1146	65.232	89.832	69.570	1.00	28.65	8
ATOM	17832	N	GLY	G1147	65.431	88.767	71.510	1.00	44.62	7
ATOM	17833	CA	GLY	G1147	66.268	87.755	70.904	1.00	48.07	6
ATOM	17834	C	GLY	G1147	67.758	87.989	71.027	1.00	50.10	6
ATOM	17835	O	GLY	G1147	68.563	87.165	70.576	1.00	52.13	8
ATOM	17836	N	ARG	G1148	68.140	89.104	71.634	1.00	38.18	7
ATOM	17837	CA	ARG	G1148	69.550	89.407	71.819	1.00	39.55	6
ATOM	17838	CB	ARG	G1148	69.710	90.876	72.159	1.00	42.03	6
ATOM	17839	CG	ARG	G1148	69.228	91.849	71.113	1.00	42.98	6
ATOM	17840	CD	ARG	G1148	70.093	91.802	69.879	1.00	44.28	6
ATOM	17841	NE	ARG	G1148	70.036	93.067	69.161	1.00	45.14	7
ATOM	17842	CZ	ARG	G1148	70.794	93.351	68.112	1.00	45.75	6
ATOM	17843	NH1	ARG	G1148	71.668	92.454	67.659	1.00	45.83	7
ATOM	17844	NH2	ARG	G1148	70.681	94.534	67.524	1.00	45.78	7
ATOM	17845	C	ARG	G1148	70.149	88.571	72.952	1.00	40.39	6
ATOM	17846	O	ARG	G1148	69.444	87.892	73.688	1.00	40.17	8
ATOM	17847	N	VAL	G1149	71.461	88.645	73.093	1.00	29.90	7
ATOM	17848	CA	VAL	G1149	72.181	87.924	74.137	1.00	31.96	6
ATOM	17849	CB	VAL	G1149	73.099	86.832	73.479	1.00	29.71	6
ATOM	17850	CG1	VAL	G1149	74.543	86.929	73.986	1.00	28.46	6
ATOM	17851	CG2	VAL	G1149	72.508	85.443	73.727	1.00	28.35	6
ATOM	17852	C	VAL	G1149	72.989	88.984	74.911	1.00	34.86	6
ATOM	17853	O	VAL	G1149	73.950	89.553	74.386	1.00	35.46	8
ATOM	17854	N	LEU	G1150	72.587	89.271	76.147	1.00	50.78	7
ATOM	17855	CA	LEU	G1150	73.272	90.291	76.934	1.00	54.05	6

ATOM	17856	CB	LEU	G1150	72.693	90.371	78.347	1.00	36.77	6
ATOM	17857	CG	LEU	G1150	71.419	91.206	78.526	1.00	36.53	6
ATOM	17858	CD1	LEU	G1150	71.212	91.485	80.010	1.00	36.78	6
ATOM	17859	CD2	LEU	G1150	71.535	92.521	77.776	1.00	35.95	6
ATOM	17860	C	LEU	G1150	74.776	90.099	77.006	1.00	56.56	6
ATOM	17861	O	LEU	G1150	75.265	88.977	77.055	1.00	57.24	8
ATOM	17862	N	ALA	G1151	75.503	91.211	77.013	1.00	68.82	7
ATOM	17863	CA	ALA	G1151	76.957	91.176	77.053	1.00	71.07	6
ATOM	17864	CB	ALA	G1151	77.503	91.823	75.804	1.00	36.93	6
ATOM	17865	C	ALA	G1151	77.536	91.843	78.309	1.00	72.81	6
ATOM	17866	O	ALA	G1151	78.667	92.361	78.319	1.00	74.07	8
ATOM	17867	N	ARG	G1152	76.737	91.820	79.369	1.00	80.03	7
ATOM	17868	CA	ARG	G1152	77.121	92.368	80.662	1.00	81.05	6
ATOM	17869	CB	ARG	G1152	77.810	93.733	80.503	1.00	120.97	6
ATOM	17870	CG	ARG	G1152	79.046	93.904	81.401	1.00	124.97	6
ATOM	17871	CD	ARG	G1152	79.642	95.313	81.317	1.00	127.44	6
ATOM	17872	NE	ARG	G1152	80.720	95.525	82.285	1.00	127.30	7
ATOM	17873	CZ	ARG	G1152	81.319	96.694	82.505	1.00	127.42	6
ATOM	17874	NH1	ARG	G1152	80.956	97.779	81.831	1.00	127.13	7
ATOM	17875	NH2	ARG	G1152	82.285	96.784	83.407	1.00	127.90	7
ATOM	17876	C	ARG	G1152	75.856	92.489	81.500	1.00	79.74	6
ATOM	17877	O	ARG	G1152	74.945	93.238	81.159	1.00	79.94	8
ATOM	17878	N	GLU	G1153	75.811	91.720	82.582	1.00	45.10	7
ATOM	17879	CA	GLU	G1153	74.679	91.689	83.498	1.00	44.26	6
ATOM	17880	CB	GLU	G1153	75.180	91.307	84.879	1.00	87.58	6
ATOM	17881	CG	GLU	G1153	76.115	92.330	85.467	1.00	92.13	6
ATOM	17882	CD	GLU	G1153	76.857	91.795	86.663	1.00	95.17	6
ATOM	17883	OE1	GLU	G1153	76.216	91.116	87.494	1.00	96.43	8
ATOM	17884	OE2	GLU	G1153	78.076	92.056	86.775	1.00	97.56	8
ATOM	17885	C	GLU	G1153	73.949	93.024	83.571	1.00	42.37	6
ATOM	17886	O	GLU	G1153	74.583	94.066	83.575	1.00	42.38	8
ATOM	17887	N	VAL	G1154	72.620	92.996	83.627	1.00	18.51	7
ATOM	17888	CA	VAL	G1154	71.837	94.226	83.699	1.00	15.82	6
ATOM	17889	CB	VAL	G1154	70.963	94.433	82.422	1.00	13.87	6
ATOM	17890	CG1	VAL	G1154	69.832	95.439	82.693	1.00	13.87	6
ATOM	17891	CG2	VAL	G1154	71.826	94.924	81.267	1.00	13.87	6
ATOM	17892	C	VAL	G1154	70.921	94.187	84.903	1.00	16.07	6
ATOM	17893	O	VAL	G1154	69.783	93.780	84.790	1.00	15.97	8
ATOM	17894	N	GLU	G1155	71.418	94.601	86.061	1.00	38.50	7
ATOM	17895	CA	GLU	G1155	70.603	94.626	87.271	1.00	39.28	6
ATOM	17896	CB	GLU	G1155	71.479	94.603	88.525	1.00	129.76	6
ATOM	17897</									

ATOM	17912	CD1	LEU	G1157	61.384	99.005	86.764	1.00	68.31	6
ATOM	17913	CD2	LEU	G1157	60.996	97.367	88.631	1.00	68.02	6
ATOM	17914	C	LEU	G1157	63.961	96.206	89.586	1.00	44.00	6
ATOM	17915	O	LEU	G1157	63.078	95.477	89.147	1.00	43.44	8
ATOM	17916	N	GLY	G1158	64.765	95.847	90.581	1.00	57.48	7
ATOM	17917	CA	GLY	G1158	64.598	94.569	91.243	1.00	59.72	6
ATOM	17918	C	GLY	G1158	65.497	93.443	90.778	1.00	61.27	6
ATOM	17919	O	GLY	G1158	66.308	92.925	91.558	1.00	61.87	8
ATOM	17920	N	ARG	G1159	65.374	93.072	89.506	1.00	48.58	7
ATOM	17921	CA	ARG	G1159	66.146	91.954	88.966	1.00	50.73	6
ATOM	17922	CB	ARG	G1159	65.312	91.182	87.936	1.00	101.21	6
ATOM	17923	CG	ARG	G1159	63.888	90.848	88.399	1.00	103.69	6
ATOM	17924	CD	ARG	G1159	63.844	90.283	89.825	1.00	103.94	6
ATOM	17925	NE	ARG	G1159	62.476	90.060	90.294	1.00	103.85	7
ATOM	17926	CZ	ARG	G1159	62.158	89.753	91.547	1.00	104.43	6
ATOM	17927	NH1	ARG	G1159	63.105	89.636	92.466	1.00	105.91	7
ATOM	17928	NH2	ARG	G1159	60.894	89.550	91.881	1.00	103.85	7
ATOM	17929	C	ARG	G1159	67.495	92.277	88.360	1.00	51.23	6
ATOM	17930	O	ARG	G1159	67.775	93.415	87.990	1.00	52.62	8
ATOM	17931	N	ARG	G1160	68.332	91.246	88.294	1.00	37.06	7
ATOM	17932	CA	ARG	G1160	69.666	91.333	87.718	1.00	38.02	6
ATOM	17933	CB	ARG	G1160	70.740	90.960	88.743	1.00	149.97	6
ATOM	17934	CG	ARG	G1160	70.837	91.906	89.921	1.00	154.14	6
ATOM	17935	CD	ARG	G1160	72.215	91.837	90.562	1.00	157.15	6
ATOM	17936	NE	ARG	G1160	72.470	92.990	91.420	1.00	160.00	7
ATOM	17937	CZ	ARG	G1160	73.652	93.274	91.959	1.00	162.29	6
ATOM	17938	NH1	ARG	G1160	74.694	92.487	91.728	1.00	163.57	7
ATOM	17939	NH2	ARG	G1160	73.796	94.345	92.727	1.00	162.30	7
ATOM	17940	C	ARG	G1160	69.646	90.295	86.613	1.00	37.25	6
ATOM	17941	O	ARG	G1160	69.366	89.125	86.877	1.00	36.75	8
ATOM	17942	N	LEU	G1161	69.931	90.720	85.385	1.00	54.98	7
ATOM	17943	CA	LEU	G1161	69.919	89.817	84.235	1.00	55.36	6
ATOM	17944	CB	LEU	G1161	69.287	90.521	83.032	1.00	39.02	6
ATOM	17945	CG	LEU	G1161	68.000	91.332	83.211	1.00	38.07	6
ATOM	17946	CD1	LEU	G1161	67.606	91.876	81.862	1.00	37.72	6
ATOM	17947	CD2	LEU	G1161	66.877	90.491	83.788	1.00	39.48	6
ATOM	17948	C	LEU	G1161	71.329	89.362	83.868	1.00	55.94	6
ATOM	17949	O	LEU	G1161	72.061	90.092	83.202	1.00	55.42	8
ATOM	17950	N	GLU	G1162	71.697	88.152	84.290	1.00	55.76	7
ATOM	17951	CA	GLU	G1162	73.029	87.615	84.023	1.00	57.35	6
ATOM	17952	CB	GLU	G1162	73.070	86.108	84.302	1.00	136.81	6
ATOM	17953	CG	GLU	G1162	71.720	85.414	84.278	1.00	139.78	6
ATOM	17954	CD	GLU	G1162	71.846	83.900	84.317	1.00	142.06	6
ATOM	17955	OE1	GLU	G1162	71.912	83.280	83.233	1.00	143.37	8
ATOM	17956	OE2	GLU	G1162	71.893	83.332	85.431	1.00	144.06	8
ATOM	17957	C	GLU	G1162	73.518	87.893	82.605	1.00	57.20	6
ATOM	17958	O	GLU	G1162	72.713	88.089	81.688	1.00	57.41	8
ATOM	17959	N	GLU	G1163	74.843	87.911	82.439	1.00	38.52	7
ATOM	17960	CA	GLU	G1163	75.463	88.180	81.146	1.00	37.84	6
ATOM	17961	CB	GLU	G1163	76.963	88.448	81.298	1.00	95.66	6
ATOM	17962	CG	GLU	G1163	77.576	89.123	80.078	1.00	98.93	6
ATOM	17963	CD	GLU	G1163	78.718	88.343	79.454	1.00	102.02	6
ATOM	17964	OE1	GLU	G1163	79.711	88.066	80.160	1.00	103.81	8
ATOM	17965	OE2	GLU	G1163	78.625	88.016	78.249	1.00	104.08	8
ATOM	17966	C	GLU	G1163	75.270	87.005	80.221	1.00	36.30	6
ATOM	17967	O	GLU	G1163	75.274	85.860	80.664	1.00	35.69	8

ATOM	17968	N	GLY	G1164	75.096	87.292	78.935	1.00	72.10	7
ATOM	17969	CA	GLY	G1164	74.926	86.237	77.954	1.00	71.36	6
ATOM	17970	C	GLY	G1164	73.515	85.705	77.820	1.00	70.58	6
ATOM	17971	O	GLY	G1164	73.186	85.055	76.837	1.00	71.82	8
ATOM	17972	N	ARG	G1165	72.672	85.960	78.804	1.00	65.61	7
ATOM	17973	CA	ARG	G1165	71.308	85.477	78.728	1.00	64.60	6
ATOM	17974	CB	ARG	G1165	70.574	85.866	80.001	1.00	143.03	6
ATOM	17975	CG	ARG	G1165	69.082	85.674	79.940	1.00	145.42	6
ATOM	17976	CD	ARG	G1165	68.427	86.446	81.050	1.00	146.39	6
ATOM	17977	NE	ARG	G1165	66.979	86.364	80.984	1.00	149.32	7
ATOM	17978	CZ	ARG	G1165	66.175	87.024	81.804	1.00	151.35	6
ATOM	17979	NH1	ARG	G1165	66.691	87.809	82.738	1.00	152.47	7
ATOM	17980	NH2	ARG	G1165	64.862	86.894	81.700	1.00	152.96	7
ATOM	17981	C	ARG	G1165	70.615	86.104	77.517	1.00	62.91	6
ATOM	17982	O	ARG	G1165	71.052	87.151	77.032	1.00	64.15	8
ATOM	17983	N	TYR	G1166	69.553	85.464	77.019	1.00	55.02	7
ATOM	17984	CA	TYR	G1166	68.783	85.999	75.887	1.00	51.39	6
ATOM	17985	CB	TYR	G1166	68.379	84.912	74.902	1.00	32.01	6
ATOM	17986	CG	TYR	G1166	69.454	84.068	74.241	1.00	30.78	6
ATOM	17987	CD1	TYR	G1166	70.109	83.063	74.938	1.00	30.12	6
ATOM	17988	CE1	TYR	G1166	70.874	82.116	74.265	1.00	28.63	6
ATOM	17989	CD2	TYR	G1166	69.628	84.113	72.855	1.00	29.93	6
ATOM	17990	CE2	TYR	G1166	70.384	83.177	72.190	1.00	28.19	6
ATOM	17991	CZ	TYR	G1166	70.991	82.178	72.893	1.00	27.43	6
ATOM	17992	OH	TYR	G1166	71.638	81.194	72.200	1.00	26.37	8
ATOM	17993	C	TYR	G1166	67.468	86.587	76.412	1.00	49.63	6
ATOM	17994	O	TYR	G1166	66.682	85.871	77.038	1.00	48.97	8
ATOM	17995	N	LEU	G1167	67.201	87.866	76.152	1.00	38.55	7
ATOM	17996	CA	LEU	G1167	65.948	88.441	76.641	1.00	36.68	6
ATOM	17997	CB	LEU	G1167	66.052	89.966	76.909	1.00	18.86	6
ATOM	17998	CG	LEU	G1167	66.973	91.014	76.279	1.00	17.61	6
ATOM	17999	CD1	LEU	G1167	68.296	91.045	77.011	1.00	16.78	6
ATOM	18000	CD2	LEU	G1167	67.137	90.737	74.818	1.00	18.49	6
ATOM	18001	C	LEU	G1167	64.742	88.164	75.753	1.00	35.58	6
ATOM	18002	O	LEU	G1167	64.769	88.398	74.547	1.00	35.26	8
ATOM	18003	N	SER	G1168	63.684	87.654	76.375	1.00	33.21	7
ATOM	18004	CA	SER	G1168	62.442	87.343	75.684	1.00	34.10	6
ATOM	18005	CB	SER	G1168	61.685	86.244	76.438	1.00	176.53	6
ATOM	18006	OG	SER	G1168	62.478	85.080	76.596	1.00	181.29	8
ATOM	18007	C	SER	G1168	61.568	88.597	75.594	1.00	33.27	6
ATOM	18008	O	SER	G1168	61.861	89.614	76.220	1.00	32.22	8
ATOM										



ATOM	18024	C	GLU	G1170	59.970	90.255	79.034	1.00	47.97	6
ATOM	18025	O	GLU	G1170	59.609	91.177	79.758	1.00	48.43	8
ATOM	18026	N	ASP	G1171	61.247	89.995	78.765	1.00	61.02	7
ATOM	18027	CA	ASP	G1171	62.327	90.805	79.315	1.00	59.79	6
ATOM	18028	CB	ASP	G1171	63.654	90.092	79.154	1.00	43.92	6
ATOM	18029	CG	ASP	G1171	63.681	88.783	79.872	1.00	45.35	6
ATOM	18030	OD1	ASP	G1171	63.180	88.747	81.009	1.00	48.16	8
ATOM	18031	OD2	ASP	G1171	64.203	87.798	79.314	1.00	44.53	8
ATOM	18032	C	ASP	G1171	62.405	92.147	78.624	1.00	58.13	6
ATOM	18033	O	ASP	G1171	62.484	93.188	79.272	1.00	57.83	8
ATOM	18034	N	VAL	G1172	62.400	92.112	77.298	1.00	42.43	7
ATOM	18035	CA	VAL	G1172	62.435	93.329	76.503	1.00	41.13	6
ATOM	18036	CB	VAL	G1172	62.234	93.013	75.021	1.00	21.88	6
ATOM	18037	CG1	VAL	G1172	62.201	94.305	74.209	1.00	19.66	6
ATOM	18038	CG2	VAL	G1172	63.343	92.079	74.554	1.00	22.09	6
ATOM	18039	C	VAL	G1172	61.337	94.289	76.964	1.00	41.77	6
ATOM	18040	O	VAL	G1172	61.308	95.460	76.581	1.00	43.44	8
ATOM	18041	N	HIS	G1173	60.411	93.781	77.764	1.00	36.80	7
ATOM	18042	CA	HIS	G1173	59.373	94.622	78.291	1.00	38.40	6
ATOM	18043	CB	HIS	G1173	58.094	93.825	78.505	1.00	110.57	6
ATOM	18044	CG	HIS	G1173	57.371	93.523	77.231	1.00	115.58	6
ATOM	18045	CD2	HIS	G1173	57.613	93.917	75.958	1.00	117.64	6
ATOM	18046	ND1	HIS	G1173	56.241	92.734	77.179	1.00	118.90	7
ATOM	18047	CE1	HIS	G1173	55.818	92.656	75.929	1.00	119.62	6
ATOM	18048	NE2	HIS	G1173	56.633	93.366	75.168	1.00	120.13	7
ATOM	18049	C	HIS	G1173	59.961	95.131	79.591	1.00	37.73	6
ATOM	18050	O	HIS	G1173	60.161	96.333	79.731	1.00	38.45	8
ATOM	18051	N	PHE	G1174	60.292	94.229	80.517	1.00	55.21	7
ATOM	18052	CA	PHE	G1174	60.880	94.645	81.797	1.00	53.36	6
ATOM	18053	CB	PHE	G1174	61.608	93.478	82.479	1.00	44.66	6
ATOM	18054	CG	PHE	G1174	62.478	93.888	83.665	1.00	42.45	6
ATOM	18055	CD1	PHE	G1174	61.984	94.721	84.667	1.00	41.72	6
ATOM	18056	CD2	PHE	G1174	63.780	93.401	83.794	1.00	40.90	6
ATOM	18057	CE1	PHE	G1174	62.772	95.058	85.776	1.00	39.75	6
ATOM	18058	CE2	PHE	G1174	64.566	93.735	84.898	1.00	39.02	6
ATOM	18059	CZ	PHE	G1174	64.060	94.563	85.889	1.00	39.10	6
ATOM	18060	C	PHE	G1174	61.857	95.787	81.569	1.00	53.30	6
ATOM	18061	O	PHE	G1174	61.699	96.870	82.133	1.00	53.50	8
ATOM	18062	N	LEU	G1175	62.863	95.541	80.739	1.00	27.60	7
ATOM	18063	CA	LEU	G1175	63.838	96.565	80.433	1.00	26.26	6
ATOM	18064	CB	LEU	G1175	64.746	96.094	79.313	1.00	15.95	6
ATOM	18065	CG	LEU	G1175	65.808	95.147	79.835	1.00	14.06	6
ATOM	18066	CD1	LEU	G1175	66.453	94.418	78.695	1.00	15.14	6
ATOM	18067	CD2	LEU	G1175	66.827	95.938	80.618	1.00	13.87	6
ATOM	18068	C	LEU	G1175	63.134	97.857	80.037	1.00	27.85	6
ATOM	18069	O	LEU	G1175	63.455	98.926	80.539	1.00	28.80	8
ATOM	18070	N	ILE	G1176	62.168	97.773	79.140	1.00	31.20	7
ATOM	18071	CA	ILE	G1176	61.458	98.973	78.760	1.00	33.78	6
ATOM	18072	CB	ILE	G1176	60.353	98.669	77.760	1.00	20.35	6
ATOM	18073	CG2	ILE	G1176	59.263	99.730	77.839	1.00	20.02	6
ATOM	18074	CG1	ILE	G1176	60.961	98.572	76.369	1.00	19.33	6
ATOM	18075	CD1	ILE	G1176	59.943	98.477	75.274	1.00	19.69	6
ATOM	18076	C	ILE	G1176	60.840	99.643	79.978	1.00	36.85	6
ATOM	18077	O	ILE	G1176	60.769	100.866	80.039	1.00	36.89	8
ATOM	18078	N	LYS	G1177	60.384	98.855	80.945	1.00	71.25	7
ATOM	18079	CA	LYS	G1177	59.776	99.440	82.131	1.00	74.99	6

ATOM	18080	CB	LYS	G1177	58.807	98.459	82.798	1.00132.30	6
ATOM	18081	CG	LYS	G1177	57.395	98.552	82.234	1.00135.70	6
ATOM	18082	CD	LYS	G1177	56.434	97.558	82.872	1.00137.66	6
ATOM	18083	CE	LYS	G1177	55.035	97.695	82.264	1.00139.50	6
ATOM	18084	NZ	LYS	G1177	54.046	96.696	82.776	1.00138.30	7
ATOM	18085	C	LYS	G1177	60.811	99.916	83.122	1.00 76.49	6
ATOM	18086	O	LYS	G1177	60.581	100.886	83.837	1.00 78.61	8
ATOM	18087	N	ALA	G1178	61.956	99.244	83.161	1.00 51.20	7
ATOM	18088	CA	ALA	G1178	63.025	99.641	84.076	1.00 51.49	6
ATOM	18089	CB	ALA	G1178	64.124	98.581	84.098	1.00 19.49	6
ATOM	18090	C	ALA	G1178	63.584	100.985	83.612	1.00 51.85	6
ATOM	18091	O	ALA	G1178	63.987	101.822	84.414	1.00 51.20	8
ATOM	18092	N	ALA	G1179	63.586	101.186	82.301	1.00 45.86	7
ATOM	18093	CA	ALA	G1179	64.076	102.422	81.714	1.00 47.10	6
ATOM	18094	CB	ALA	G1179	64.370	102.216	80.231	1.00141.45	6
ATOM	18095	C	ALA	G1179	63.054	103.542	81.899	1.00 48.32	6
ATOM	18096	O	ALA	G1179	63.306	104.690	81.515	1.00 50.16	8
ATOM	18097	N	GLU	G1180	61.894	103.202	82.456	1.00 44.25	7
ATOM	18098	CA	GLU	G1180	60.862	104.197	82.726	1.00 44.57	6
ATOM	18099	CB	GLU	G1180	59.468	103.630	82.487	1.00 76.96	6
ATOM	18100	CG	GLU	G1180	59.144	103.378	81.038	1.00 79.70	6
ATOM	18101	CD	GLU	G1180	57.669	103.132	80.832	1.00 81.71	6
ATOM	18102	OE1	GLU	G1180	57.091	102.348	81.616	1.00 83.04	8
ATOM	18103	OE2	GLU	G1180	57.086	103.713	79.892	1.00 82.50	8
ATOM	18104	C	GLU	G1180	61.034	104.567	84.194	1.00 43.84	6
ATOM	18105	O	GLU	G1180	61.014	105.741	84.576	1.00 44.27	8
ATOM	18106	N	ALA	G1181	61.209	103.554	85.027	1.00 74.61	7
ATOM	18107	CA	ALA	G1181	61.437	103.815	86.431	1.00 74.64	6
ATOM	18108	CB	ALA	G1181	61.754	102.521	87.160	1.00 98.13	6
ATOM	18109	C	ALA	G1181	62.656	104.730	86.423	1.00 74.18	6
ATOM	18110	O	ALA	G1181	62.783	105.625	87.248	1.00 75.56	8
ATOM	18111	N	GLY	G1182	63.535	104.502	85.450	1.00 40.36	7
ATOM	18112	CA	GLY	G1182	64.745	105.287	85.323	1.00 38.14	6
ATOM	18113	C	GLY	G1182	65.882	104.546	85.986	1.00 37.13	6
ATOM	18114	O	GLY	G1182	66.362	104.972	87.031	1.00 38.37	8
ATOM	18115	N	GLU	G1183	66.295	103.423	85.393	1.00 53.62	7
ATOM	18116	CA	GLU	G1183	67.394	102.608	85.924	1.00 52.00	6
ATOM	18117	CB	GLU	G1183	66.843	101.406	86.707	1.00 61.14	6
ATOM	18118	CG	GLU	G1183	67.517	101.211	88.064	1.00 61.51	6
ATOM	18119	CD	GLU	G1183	66.596	100.603	89.133	1.00 63.38	6
ATOM	18120	OE1	GLU	G1183	65.376	100.891	89.116	1.00 64.65	8
ATOM	18121	OE2	GLU	G1183	67.099	99.860	90.012	1.00 62.63	8
ATOM	18122	C	GLU	G1183	68.365	102.137			

ATOM	18136	NE	ARG	G1185	68.282	108.409	79.976	1.00	30.59	7
ATOM	18137	CZ	ARG	G1185	67.977	109.523	79.325	1.00	29.80	6
ATOM	18138	NH1	ARG	G1185	68.700	109.880	78.276	1.00	29.91	7
ATOM	18139	NH2	ARG	G1185	66.936	110.259	79.698	1.00	29.68	7
ATOM	18140	C	ARG	G1185	69.946	103.155	77.852	1.00	21.54	6
ATOM	18141	O	ARG	G1185	69.406	103.337	76.746	1.00	20.03	8
ATOM	18142	N	GLU	G1186	71.037	102.414	77.990	1.00	46.36	7
ATOM	18143	CA	GLU	G1186	71.595	101.683	76.868	1.00	48.61	6
ATOM	18144	CB	GLU	G1186	73.061	102.036	76.637	1.00	150.56	6
ATOM	18145	CG	GLU	G1186	73.329	103.478	76.279	1.00	156.13	6
ATOM	18146	CD	GLU	G1186	74.740	103.678	75.749	1.00	160.61	6
ATOM	18147	OE1	GLU	G1186	75.000	103.295	74.587	1.00	161.94	8
ATOM	18148	OE2	GLU	G1186	75.595	104.200	76.498	1.00	164.12	8
ATOM	18149	C	GLU	G1186	71.489	100.246	77.366	1.00	48.64	6
ATOM	18150	O	GLU	G1186	71.292	100.027	78.568	1.00	48.96	8
ATOM	18151	N	VAL	G1187	71.599	99.276	76.459	1.00	27.64	7
ATOM	18152	CA	VAL	G1187	71.528	97.868	76.834	1.00	26.21	6
ATOM	18153	CB	VAL	G1187	70.191	97.206	76.378	1.00	17.99	6
ATOM	18154	CG1	VAL	G1187	70.149	95.776	76.856	1.00	16.19	6
ATOM	18155	CG2	VAL	G1187	68.976	97.966	76.938	1.00	15.76	6
ATOM	18156	C	VAL	G1187	72.695	97.145	76.177	1.00	27.11	6
ATOM	18157	O	VAL	G1187	72.805	97.145	74.964	1.00	26.72	8
ATOM	18158	N	PRO	G1188	73.584	96.528	76.981	1.00	45.28	7
ATOM	18159	CD	PRO	G1188	73.422	96.413	78.441	1.00	87.43	6
ATOM	18160	CA	PRO	G1188	74.775	95.782	76.555	1.00	45.41	6
ATOM	18161	CB	PRO	G1188	75.516	95.562	77.860	1.00	87.26	6
ATOM	18162	CG	PRO	G1188	74.399	95.298	78.794	1.00	88.03	6
ATOM	18163	C	PRO	G1188	74.384	94.463	75.909	1.00	45.11	6
ATOM	18164	O	PRO	G1188	74.324	93.429	76.577	1.00	44.27	8
ATOM	18165	N	VAL	G1189	74.147	94.505	74.602	1.00	18.81	7
ATOM	18166	CA	VAL	G1189	73.715	93.336	73.857	1.00	19.53	6
ATOM	18167	CB	VAL	G1189	72.255	93.551	73.388	1.00	54.34	6
ATOM	18168	CG1	VAL	G1189	72.157	93.687	71.880	1.00	53.73	6
ATOM	18169	CG2	VAL	G1189	71.418	92.442	73.904	1.00	56.33	6
ATOM	18170	C	VAL	G1189	74.637	93.034	72.682	1.00	20.15	6
ATOM	18171	O	VAL	G1189	75.028	93.939	71.941	1.00	19.21	8
ATOM	18172	N	ARG	G1190	74.977	91.753	72.528	1.00	39.78	7
ATOM	18173	CA	ARG	G1190	75.869	91.278	71.467	1.00	42.42	6
ATOM	18174	CB	ARG	G1190	76.465	89.937	71.876	1.00	72.84	6
ATOM	18175	CG	ARG	G1190	77.099	89.978	73.240	1.00	75.85	6
ATOM	18176	CD	ARG	G1190	78.285	89.050	73.318	1.00	77.83	6
ATOM	18177	NE	ARG	G1190	77.888	87.651	73.252	1.00	79.70	7
ATOM	18178	CZ	ARG	G1190	78.735	86.647	73.047	1.00	81.18	6
ATOM	18179	NH1	ARG	G1190	80.030	86.887	72.881	1.00	80.55	7
ATOM	18180	NH2	ARG	G1190	78.287	85.399	73.018	1.00	81.76	7
ATOM	18181	C	ARG	G1190	75.189	91.147	70.102	1.00	43.65	6
ATOM	18182	O	ARG	G1190	74.259	90.368	69.935	1.00	44.86	8
ATOM	18183	N	SER	G1191	75.677	91.889	69.118	1.00	49.48	7
ATOM	18184	CA	SER	G1191	75.079	91.870	67.792	1.00	51.25	6
ATOM	18185	CB	SER	G1191	74.389	93.219	67.564	1.00	46.33	6
ATOM	18186	OG	SER	G1191	74.207	93.505	66.192	1.00	46.50	8
ATOM	18187	C	SER	G1191	76.072	91.569	66.661	1.00	52.86	6
ATOM	18188	O	SER	G1191	77.272	91.702	66.841	1.00	52.77	8
ATOM	18189	N	PRO	G1192	75.573	91.132	65.487	1.00	39.77	7
ATOM	18190	CD	PRO	G1192	74.166	90.756	65.249	1.00	52.04	6
ATOM	18191	CA	PRO	G1192	76.383	90.807	64.310	1.00	40.60	6

ATOM	18192	CB	PRO	G1192	75.331	90.544	63.240	1.00	51.16	6
ATOM	18193	CG	PRO	G1192	74.261	89.888	64.012	1.00	51.67	6
ATOM	18194	C	PRO	G1192	77.342	91.920	63.896	1.00	42.52	6
ATOM	18195	O	PRO	G1192	78.437	91.646	63.389	1.00	43.76	8
ATOM	18196	N	LEU	G1193	76.935	93.172	64.101	1.00	67.69	7
ATOM	18197	CA	LEU	G1193	77.780	94.302	63.732	1.00	70.26	6
ATOM	18198	CB	LEU	G1193	77.117	95.619	64.126	1.00	70.36	6
ATOM	18199	CG	LEU	G1193	75.956	96.075	63.247	1.00	71.83	6
ATOM	18200	CD1	LEU	G1193	76.070	97.571	62.996	1.00	72.04	6
ATOM	18201	CD2	LEU	G1193	75.991	95.340	61.929	1.00	72.96	6
ATOM	18202	C	LEU	G1193	79.173	94.229	64.351	1.00	71.54	6
ATOM	18203	O	LEU	G1193	80.123	94.840	63.848	1.00	72.01	8
ATOM	18204	N	THR	G1194	79.283	93.471	65.439	1.00	28.21	7
ATOM	18205	CA	THR	G1194	80.535	93.293	66.151	1.00	29.10	6
ATOM	18206	CB	THR	G1194	80.478	93.960	67.543	1.00	92.72	6
ATOM	18207	OG1	THR	G1194	81.616	93.553	68.309	1.00	95.37	8
ATOM	18208	CG2	THR	G1194	79.221	93.559	68.289	1.00	94.01	6
ATOM	18209	C	THR	G1194	80.908	91.825	66.344	1.00	29.40	6
ATOM	18210	O	THR	G1194	80.981	91.354	67.475	1.00	29.07	8
ATOM	18211	N	CYS	G1195	81.156	91.095	65.261	1.00	109.03	7
ATOM	18212	CA	CYS	G1195	81.532	89.702	65.437	1.00	111.64	6
ATOM	18213	CB	CYS	G1195	80.381	88.790	65.059	1.00	54.80	6
ATOM	18214	SG	CYS	G1195	80.333	87.402	66.156	1.00	51.20	16
ATOM	18215	C	CYS	G1195	82.818	89.263	64.742	1.00	114.47	6
ATOM	18216	O	CYS	G1195	83.103	89.646	63.606	1.00	115.34	8
ATOM	18217	N	ALA	G1196	83.576	88.434	65.456	1.00	107.79	7
ATOM	18218	CA	ALA	G1196	84.879	87.946	65.025	1.00	111.57	6
ATOM	18219	CB	ALA	G1196	85.535	87.197	66.177	1.00	113.65	6
ATOM	18220	C	ALA	G1196	84.998	87.118	63.749	1.00	113.95	6
ATOM	18221	O	ALA	G1196	86.112	86.851	63.294	1.00	114.22	8
ATOM	18222	N	THR	G1197	83.886	86.708	63.156	1.00	109.64	7
ATOM	18223	CA	THR	G1197	83.993	85.914	61.939	1.00	111.92	6
ATOM	18224	CB	THR	G1197	83.339	84.533	62.130	1.00	103.22	6
ATOM	18225	OG1	THR	G1197	83.339	84.189	63.521	1.00	103.44	8
ATOM	18226	CG2	THR	G1197	84.112	83.471	61.351	1.00	103.53	6
ATOM	18227	C	THR	G1197	83.353	86.609	60.734	1.00	113.33	6
ATOM	18228	O	THR	G1197	82.145	86.493	60.525	1.00	113.81	8
ATOM	18229	N	ALA	G1198	84.156	87.327	59.944	1.00	208.87	7
ATOM	18230	CA	ALA	G1198	83.647	88.030	58.761	1.00	208.87	6
ATOM	18231	CB	ALA	G1198	84.792	88.716	58.006	1.00	46.78	6
ATOM	18232	C	ALA	G1198	82.932	87.051	57.838	1.00	208.87	6
ATOM	18233	O	ALA	G1198	81.749	86.764	58.018	1.00	208.87	8
ATOM	18234	N	TYR	G1199	83.658	86.546	56.847	1.00	108.37	7
ATOM	18235	CA	TYR	G1199	83.104	85.585	55.900	1.00	108.99	6
ATOM	18236	CB	TYR	G1199	84.244	84.780	55.264	1.00	88.96	6
ATOM	18237	CG	TYR	G1199	85.055	85.582	54.270	1.00	90.45	6
ATOM	18238	CD1	TYR	G1199	86.376	85.252	53.986	1.00	91.36	6
ATOM	18239	CE1	TYR	G1199	87.127	86.001	53.074	1.00	92.40	6
ATOM	18240	CD2	TYR	G1199	84.496	86.679	53.615	1.00	90.54	6
ATOM	18241	CE2	TYR	G1199	85.232	87.433	52.703	1.00	91.49	6
ATOM	18242	CZ	TYR	G1199	86.549	87.094	52.437	1.00	92.07	6
ATOM	18243	OH	TYR	G1199	87.279	87.864	51.551	1.00	91.83	8
ATOM	18244	C	TYR	G1199	82.094	84.658	56.574	1.00	108.81	6
ATOM	18245	O	TYR	G1199	80.979	84.493	56.096	1.00	108.02	8
ATOM	18246	N	GLY	G1200	82.474	84.061	57.693	1.00	208.87	7
ATOM	18247	CA	GLY	G1200	81.537	83.193	58.375	1.00	208.87	6

ATOM	18248	C	GLY	G1200	80.714	83.986	59.374	1.00208.87	6
ATOM	18249	O	GLY	G1200	81.183	84.251	60.476	1.00208.87	8
ATOM	18250	N	ALA	G1201	79.498	84.377	59.000	1.00 97.50	7
ATOM	18251	CA	ALA	G1201	78.619	85.137	59.898	1.00 96.17	6
ATOM	18252	CB	ALA	G1201	77.201	85.064	59.414	1.00140.38	6
ATOM	18253	C	ALA	G1201	78.688	84.602	61.319	1.00 95.56	6
ATOM	18254	O	ALA	G1201	79.069	83.456	61.542	1.00 95.15	8
ATOM	18255	N	CYS	G1202	78.297	85.408	62.294	1.00 66.28	7
ATOM	18256	CA	CYS	G1202	78.387	84.907	63.648	1.00 65.50	6
ATOM	18257	CB	CYS	G1202	78.072	85.978	64.679	1.00208.87	6
ATOM	18258	SG	CYS	G1202	78.241	85.327	66.366	1.00208.87	16
ATOM	18259	C	CYS	G1202	77.439	83.760	63.853	1.00 62.81	6
ATOM	18260	O	CYS	G1202	76.628	83.460	62.984	1.00 62.33	8
ATOM	18261	N	ALA	G1203	77.556	83.129	65.019	1.00126.53	7
ATOM	18262	CA	ALA	G1203	76.720	82.003	65.408	1.00123.45	6
ATOM	18263	CB	ALA	G1203	77.449	80.720	65.154	1.00102.53	6
ATOM	18264	C	ALA	G1203	76.370	82.117	66.885	1.00120.96	6
ATOM	18265	O	ALA	G1203	77.095	81.614	67.739	1.00121.39	8
ATOM	18266	N	LYS	G1204	75.249	82.781	67.151	1.00 51.38	7
ATOM	18267	CA	LYS	G1204	74.713	83.041	68.488	1.00 47.97	6
ATOM	18268	CB	LYS	G1204	75.282	82.065	69.520	1.00134.40	6
ATOM	18269	CG	LYS	G1204	74.639	80.688	69.465	1.00136.46	6
ATOM	18270	CD	LYS	G1204	74.859	79.950	70.776	1.00136.68	6
ATOM	18271	CE	LYS	G1204	73.938	78.748	70.918	1.00136.14	6
ATOM	18272	NZ	LYS	G1204	74.038	78.143	72.282	1.00134.86	7
ATOM	18273	C	LYS	G1204	74.897	84.494	68.967	1.00 43.96	6
ATOM	18274	O	LYS	G1204	74.990	84.770	70.164	1.00 44.01	8
ATOM	18275	N	CYS	G1205	74.984	85.410	68.010	1.00 66.03	7
ATOM	18276	CA	CYS	G1205	75.077	86.841	68.282	1.00 61.43	6
ATOM	18277	CB	CYS	G1205	76.322	87.476	67.661	1.00 68.90	6
ATOM	18278	SG	CYS	G1205	77.842	87.350	68.644	1.00 66.16	16
ATOM	18279	C	CYS	G1205	73.835	87.279	67.525	1.00 59.10	6
ATOM	18280	O	CYS	G1205	73.209	88.299	67.816	1.00 60.26	8
ATOM	18281	N	TYR	G1206	73.487	86.466	66.537	1.00 66.00	7
ATOM	18282	CA	TYR	G1206	72.294	86.676	65.750	1.00 61.13	6
ATOM	18283	CB	TYR	G1206	72.423	85.935	64.420	1.00 58.42	6
ATOM	18284	CG	TYR	G1206	71.150	85.884	63.617	1.00 59.28	6
ATOM	18285	CD1	TYR	G1206	70.737	86.966	62.853	1.00 60.28	6
ATOM	18286	CE1	TYR	G1206	69.538	86.930	62.155	1.00 61.02	6
ATOM	18287	CD2	TYR	G1206	70.334	84.766	63.658	1.00 60.32	6
ATOM	18288	CE2	TYR	G1206	69.139	84.720	62.969	1.00 60.55	6
ATOM	18289	CZ	TYR	G1206	68.745	85.801	62.222	1.00 61.51	6
ATOM	18290	OH	TYR	G1206	67.547	85.761	61.553	1.00 61.96	8

ATOM	18304	CE2	TYR	G1208	65.448	83.653	72.943	1.00	25.21	6
ATOM	18305	CZ	TYR	G1208	64.071	83.698	72.838	1.00	26.65	6
ATOM	18306	OH	TYR	G1208	63.299	83.399	73.941	1.00	28.05	8
ATOM	18307	C	TYR	G1208	67.054	83.405	67.365	1.00	13.87	6
ATOM	18308	O	TYR	G1208	67.193	84.361	66.603	1.00	13.87	8
ATOM	18309	N	ASP	G1209	66.647	82.200	66.970	1.00	43.28	7
ATOM	18310	CA	ASP	G1209	66.262	81.898	65.591	1.00	42.53	6
ATOM	18311	CB	ASP	G1209	65.555	80.544	65.536	1.00	31.74	6
ATOM	18312	CG	ASP	G1209	65.062	80.197	64.151	1.00	31.62	6
ATOM	18313	OD1	ASP	G1209	64.384	81.039	63.523	1.00	31.04	8
ATOM	18314	OD2	ASP	G1209	65.350	79.070	63.694	1.00	34.00	8
ATOM	18315	C	ASP	G1209	65.290	82.977	65.133	1.00	42.29	6
ATOM	18316	O	ASP	G1209	65.181	83.278	63.944	1.00	43.52	8
ATOM	18317	N	LEU	G1210	64.572	83.533	66.101	1.00	29.19	7
ATOM	18318	CA	LEU	G1210	63.610	84.587	65.858	1.00	27.76	6
ATOM	18319	CB	LEU	G1210	64.260	85.700	65.039	1.00	16.20	6
ATOM	18320	CG	LEU	G1210	63.420	86.960	64.945	1.00	15.40	6
ATOM	18321	CD1	LEU	G1210	63.091	87.431	66.337	1.00	15.41	6
ATOM	18322	CD2	LEU	G1210	64.173	88.022	64.168	1.00	16.19	6
ATOM	18323	C	LEU	G1210	62.345	84.080	65.160	1.00	27.63	6
ATOM	18324	O	LEU	G1210	61.424	84.866	64.865	1.00	26.89	8
ATOM	18325	N	SER	G1211	62.298	82.773	64.903	1.00	27.94	7
ATOM	18326	CA	SER	G1211	61.137	82.176	64.250	1.00	27.58	6
ATOM	18327	CB	SER	G1211	61.464	81.704	62.842	1.00	24.99	6
ATOM	18328	OG	SER	G1211	61.427	80.288	62.798	1.00	21.95	8
ATOM	18329	C	SER	G1211	60.660	80.987	65.050	1.00	28.55	6
ATOM	18330	O	SER	G1211	59.543	80.511	64.865	1.00	27.88	8
ATOM	18331	N	MET	G1212	61.520	80.489	65.924	1.00	57.72	7
ATOM	18332	CA	MET	G1212	61.145	79.369	66.761	1.00	60.29	6
ATOM	18333	CB	MET	G1212	62.089	78.182	66.538	1.00	49.27	6
ATOM	18334	CG	MET	G1212	62.027	77.593	65.122	1.00	50.21	6
ATOM	18335	SD	MET	G1212	62.856	75.990	64.939	1.00	51.78	16
ATOM	18336	CE	MET	G1212	64.604	76.502	64.872	1.00	49.70	6
ATOM	18337	C	MET	G1212	61.193	79.849	68.203	1.00	62.10	6
ATOM	18338	O	MET	G1212	61.004	79.070	69.141	1.00	63.42	8
ATOM	18339	N	ALA	G1213	61.432	81.151	68.359	1.00	42.54	7
ATOM	18340	CA	ALA	G1213	61.502	81.775	69.671	1.00	42.28	6
ATOM	18341	CB	ALA	G1213	60.118	81.860	70.271	1.00	13.87	6
ATOM	18342	C	ALA	G1213	62.409	80.934	70.547	1.00	43.53	6
ATOM	18343	O	ALA	G1213	62.038	80.502	71.633	1.00	44.76	8
ATOM	18344	N	ARG	G1214	63.612	80.705	70.053	1.00	30.09	7
ATOM	18345	CA	ARG	G1214	64.593	79.896	70.748	1.00	31.85	6
ATOM	18346	CB	ARG	G1214	64.325	78.418	70.423	1.00	71.16	6
ATOM	18347	CG	ARG	G1214	65.482	77.606	69.845	1.00	75.73	6
ATOM	18348	CD	ARG	G1214	65.620	76.294	70.624	1.00	79.41	6
ATOM	18349	NE	ARG	G1214	66.783	75.489	70.253	1.00	79.98	7
ATOM	18350	CZ	ARG	G1214	67.300	74.523	71.014	1.00	80.05	6
ATOM	18351	NH1	ARG	G1214	66.769	74.230	72.201	1.00	79.65	7
ATOM	18352	NH2	ARG	G1214	68.349	73.839	70.581	1.00	80.23	7
ATOM	18353	C	ARG	G1214	65.923	80.379	70.193	1.00	32.25	6
ATOM	18354	O	ARG	G1214	65.961	81.314	69.407	1.00	31.85	8
ATOM	18355	N	PRO	G1215	67.035	79.800	70.626	1.00	33.76	7
ATOM	18356	CD	PRO	G1215	67.392	79.152	71.893	1.00	30.02	6
ATOM	18357	CA	PRO	G1215	68.215	80.369	69.990	1.00	35.06	6
ATOM	18358	CB	PRO	G1215	69.311	80.123	71.027	1.00	31.38	6
ATOM	18359	CG	PRO	G1215	68.858	78.901	71.706	1.00	31.25	6

ATOM	18360	C	PRO	G1215	68.529	79.760	68.612	1.00	35.27	6
ATOM	18361	O	PRO	G1215	68.301	78.575	68.362	1.00	36.99	8
ATOM	18362	N	VAL	G1216	69.045	80.616	67.734	1.00	28.45	7
ATOM	18363	CA	VAL	G1216	69.442	80.298	66.366	1.00	28.73	6
ATOM	18364	CB	VAL	G1216	70.324	81.387	65.793	1.00	26.62	6
ATOM	18365	CG1	VAL	G1216	70.832	80.978	64.427	1.00	26.35	6
ATOM	18366	CG2	VAL	G1216	69.557	82.669	65.746	1.00	26.19	6
ATOM	18367	C	VAL	G1216	70.224	79.026	66.151	1.00	30.04	6
ATOM	18368	O	VAL	G1216	71.364	78.902	66.601	1.00	31.31	8
ATOM	18369	N	SER	G1217	69.633	78.101	65.410	1.00	25.13	7
ATOM	18370	CA	SER	G1217	70.310	76.859	65.118	1.00	25.66	6
ATOM	18371	CB	SER	G1217	69.321	75.859	64.526	1.00	77.20	6
ATOM	18372	OG	SER	G1217	69.969	74.633	64.230	1.00	80.87	8
ATOM	18373	C	SER	G1217	71.471	77.105	64.142	1.00	25.05	6
ATOM	18374	O	SER	G1217	71.430	78.025	63.318	1.00	26.30	8
ATOM	18375	N	ILE	G1218	72.513	76.285	64.270	1.00	19.14	7
ATOM	18376	CA	ILE	G1218	73.693	76.349	63.416	1.00	18.95	6
ATOM	18377	CB	ILE	G1218	74.800	75.403	63.915	1.00	52.29	6
ATOM	18378	CG2	ILE	G1218	75.953	75.387	62.922	1.00	52.38	6
ATOM	18379	CG1	ILE	G1218	75.299	75.846	65.285	1.00	52.07	6
ATOM	18380	CD1	ILE	G1218	76.138	77.067	65.225	1.00	51.14	6
ATOM	18381	C	ILE	G1218	73.277	75.869	62.041	1.00	19.22	6
ATOM	18382	O	ILE	G1218	72.591	74.858	61.919	1.00	18.58	8
ATOM	18383	N	GLY	G1219	73.711	76.581	61.012	1.00	39.45	7
ATOM	18384	CA	GLY	G1219	73.351	76.199	59.667	1.00	39.72	6
ATOM	18385	C	GLY	G1219	72.193	77.052	59.216	1.00	40.45	6
ATOM	18386	O	GLY	G1219	71.640	76.851	58.138	1.00	41.07	8
ATOM	18387	N	GLU	G1220	71.822	78.003	60.065	1.00	30.39	7
ATOM	18388	CA	GLU	G1220	70.740	78.935	59.783	1.00	30.60	6
ATOM	18389	CB	GLU	G1220	70.400	79.696	61.056	1.00	68.18	6
ATOM	18390	CG	GLU	G1220	69.224	80.617	60.937	1.00	72.48	6
ATOM	18391	CD	GLU	G1220	67.965	79.885	60.550	1.00	73.57	6
ATOM	18392	OE1	GLU	G1220	67.774	78.746	61.032	1.00	73.24	8
ATOM	18393	OE2	GLU	G1220	67.159	80.454	59.780	1.00	74.87	8
ATOM	18394	C	GLU	G1220	71.294	79.884	58.738	1.00	29.82	6
ATOM	18395	O	GLU	G1220	71.991	80.827	59.068	1.00	30.65	8
ATOM	18396	N	ALA	G1221	71.008	79.628	57.473	1.00	36.15	7
ATOM	18397	CA	ALA	G1221	71.538	80.476	56.413	1.00	36.74	6
ATOM	18398	CB	ALA	G1221	71.163	79.885	55.054	1.00	26.70	6
ATOM	18399	C	ALA	G1221	71.029	81.912	56.540	1.00	37.26	6
ATOM	18400	O	ALA	G1221	70.414	82.449	55.615	1.00	37.62	8
ATOM	18401	N	VAL	G1222	71.306	82.540	57.681	1.00	40.17	7
ATOM	18402	CA	VAL	G1222	70.839	83.903	57.943	1.00	41.30	6
ATOM	18403	CB	VAL	G1222	71.536	84.526	59.184	1.00	39.52	6
ATOM	18404	CG1	VAL	G1222	71.026	85.958	59.400	1.00	40.48	6
ATOM	18405	CG2	VAL	G1222	71.265	83.685	60.418	1.00	38.83	6
ATOM	18406	C	VAL	G1222	71.014	84.856	56.767	1.00	41.79	6
ATOM	18407	O	VAL	G1222	70.105	85.603	56.430	1.00	42.32	8
ATOM	18408	N	GLY	G1223	72.185	84.826	56.148	1.00	25.94	7
ATOM	18409	CA	GLY	G1223	72.436	85.708	55.036	1.00	26.56	6
ATOM	18410	C	GLY	G1223	71.166	86.043	54.291	1.00	27.30	6
ATOM	18411	O	GLY	G1223	70.644	87.156	54.412	1.00	28.59	8
ATOM	18412	N	VAL	G1224	70.651	85.070	53.541	1.00	46.12	7
ATOM	18413	CA	VAL	G1224	69.456	85.279	52.741	1.00	45.23	6
ATOM	18414	CB	VAL	G1224	69.266	84.201	51.700	1.00	45.94	6
ATOM	18415	CG1	VAL	G1224	68.407	84.743	50.590	1.00	46.95	6

ATOM	18416	CG2	VAL	G1224	70.600	83.729	51.186	1.00	45.51	6
ATOM	18417	C	VAL	G1224	68.198	85.334	53.556	1.00	44.20	6
ATOM	18418	O	VAL	G1224	67.167	85.771	53.062	1.00	46.29	8
ATOM	18419	N	VAL	G1225	68.262	84.855	54.792	1.00	20.28	7
ATOM	18420	CA	VAL	G1225	67.097	84.922	55.668	1.00	17.78	6
ATOM	18421	CB	VAL	G1225	67.167	83.925	56.822	1.00	27.15	6
ATOM	18422	CG1	VAL	G1225	65.895	83.980	57.630	1.00	27.09	6
ATOM	18423	CG2	VAL	G1225	67.399	82.536	56.282	1.00	27.80	6
ATOM	18424	C	VAL	G1225	67.173	86.307	56.273	1.00	17.91	6
ATOM	18425	O	VAL	G1225	66.409	86.640	57.179	1.00	16.87	8
ATOM	18426	N	ALA	G1226	68.121	87.099	55.762	1.00	34.77	7
ATOM	18427	CA	ALA	G1226	68.361	88.458	56.227	1.00	35.41	6
ATOM	18428	CB	ALA	G1226	69.771	88.582	56.770	1.00	35.47	6
ATOM	18429	C	ALA	G1226	68.146	89.450	55.107	1.00	35.70	6
ATOM	18430	O	ALA	G1226	67.928	90.628	55.351	1.00	36.77	8
ATOM	18431	N	ALA	G1227	68.228	88.982	53.872	1.00	40.98	7
ATOM	18432	CA	ALA	G1227	67.988	89.865	52.740	1.00	42.72	6
ATOM	18433	CB	ALA	G1227	68.731	89.369	51.513	1.00	60.17	6
ATOM	18434	C	ALA	G1227	66.474	89.844	52.501	1.00	43.37	6
ATOM	18435	O	ALA	G1227	65.833	90.890	52.433	1.00	44.26	8
ATOM	18436	N	GLU	G1228	65.905	88.646	52.397	1.00	26.42	7
ATOM	18437	CA	GLU	G1228	64.484	88.498	52.189	1.00	26.29	6
ATOM	18438	CB	GLU	G1228	64.089	87.041	52.355	1.00	30.18	6
ATOM	18439	CG	GLU	G1228	64.838	86.122	51.410	1.00	35.78	6
ATOM	18440	CD	GLU	G1228	64.256	84.727	51.338	1.00	39.43	6
ATOM	18441	OE1	GLU	G1228	64.268	84.026	52.373	1.00	41.42	8
ATOM	18442	OE2	GLU	G1228	63.786	84.335	50.243	1.00	43.56	8
ATOM	18443	C	GLU	G1228	63.767	89.352	53.206	1.00	26.75	6
ATOM	18444	O	GLU	G1228	63.012	90.238	52.843	1.00	27.89	8
ATOM	18445	N	SER	G1229	64.018	89.100	54.486	1.00	28.76	7
ATOM	18446	CA	SER	G1229	63.379	89.860	55.558	1.00	30.26	6
ATOM	18447	CB	SER	G1229	64.133	89.685	56.873	1.00	58.30	6
ATOM	18448	OG	SER	G1229	63.868	88.427	57.453	1.00	59.97	8
ATOM	18449	C	SER	G1229	63.326	91.332	55.233	1.00	31.99	6
ATOM	18450	O	SER	G1229	62.278	91.953	55.284	1.00	33.06	8
ATOM	18451	N	ILE	G1230	64.471	91.894	54.899	1.00	22.94	7
ATOM	18452	CA	ILE	G1230	64.537	93.301	54.584	1.00	26.92	6
ATOM	18453	CB	ILE	G1230	65.997	93.785	54.575	1.00	52.11	6
ATOM	18454	CG2	ILE	G1230	66.037	95.296	54.369	1.00	52.92	6
ATOM	18455	CG1	ILE	G1230	66.694	93.370	55.877	1.00	52.92	6
ATOM	18456	CD1	ILE	G1230	68.165	93.726	55.938	1.00	53.75	6
ATOM	18457	C	ILE	G1230	63.922	93.617	53.229	1.00	28.48	6
ATOM	18458	O	ILE	G1230	63.670	94.766	52.928	1.00	30.31	8
ATOM	18459	N	GLY	G1231	63.664	92.610	52.411	1.00	37.73	7
ATOM	18460	CA	GLY	G1231	63.128	92.884	51.089	1.00	40.38	6
ATOM	18461	C	GLY	G1231	61.656	92.643	50.830	1.00	42.90	6
ATOM	18462	O	GLY	G1231	61.122	93.149	49.847	1.00	43.23	8
ATOM	18463	N	GLU	G1232	61.003	91.847	51.668	1.00	47.02	7
ATOM	18464	CA	GLU	G1232	59.579	91.609	51.491	1.00	51.50	6
ATOM	18465	CB	GLU	G1232	59.086	90.475	52.396	1.00	199.28	6
ATOM	18466	CG	GLU	G1232	57.595	90.190	52.263	1.00	204.27	6
ATOM	18467	CD	GLU	G1232	56.882	90.144	53.602	1.00	207.53	6
ATOM	18468	OE1	GLU	G1232	57.299	89.355	54.479	1.00	208.87	8
ATOM	18469	OE2	GLU	G1232	55.898	90.895	53.776	1.00	208.87	8
ATOM	18470	C	GLU	G1232	58.901	92.926	51.873	1.00	52.75	6
ATOM	18471	O	GLU	G1232	58.267	93.576	51.034	1.00	53.88	8



ATOM	18472	N	PRO	G1233	59.039	93.354	53.141	1.00	55.76	7
ATOM	18473	CD	PRO	G1233	59.754	92.757	54.284	1.00	99.43	6
ATOM	18474	CA	PRO	G1233	58.407	94.614	53.533	1.00	56.78	6
ATOM	18475	CB	PRO	G1233	58.981	94.851	54.919	1.00	100.11	6
ATOM	18476	CG	PRO	G1233	59.121	93.456	55.453	1.00	99.64	6
ATOM	18477	C	PRO	G1233	58.776	95.723	52.543	1.00	56.76	6
ATOM	18478	O	PRO	G1233	58.176	96.792	52.527	1.00	57.07	8
ATOM	18479	N	GLY	G1234	59.775	95.452	51.718	1.00	47.53	7
ATOM	18480	CA	GLY	G1234	60.191	96.423	50.734	1.00	50.03	6
ATOM	18481	C	GLY	G1234	59.154	96.573	49.641	1.00	51.01	6
ATOM	18482	O	GLY	G1234	59.370	97.283	48.657	1.00	51.04	8
ATOM	18483	N	THR	G1235	58.023	95.900	49.798	1.00	102.30	7
ATOM	18484	CA	THR	G1235	56.971	95.994	48.803	1.00	104.55	6
ATOM	18485	CB	THR	G1235	56.427	94.601	48.455	1.00	95.64	6
ATOM	18486	OG1	THR	G1235	57.521	93.750	48.089	1.00	96.80	8
ATOM	18487	CG2	THR	G1235	55.460	94.682	47.284	1.00	96.40	6
ATOM	18488	C	THR	G1235	55.874	96.880	49.377	1.00	104.60	6
ATOM	18489	O	THR	G1235	54.697	96.746	49.049	1.00	105.19	8
ATOM	18490	N	GLN	G1236	56.291	97.795	50.243	1.00	131.07	7
ATOM	18491	CA	GLN	G1236	55.382	98.727	50.884	1.00	131.35	6
ATOM	18492	CB	GLN	G1236	54.976	98.221	52.262	1.00	101.39	6
ATOM	18493	CG	GLN	G1236	54.507	96.791	52.313	1.00	100.77	6
ATOM	18494	CD	GLN	G1236	54.127	96.403	53.716	1.00	100.20	6
ATOM	18495	OE1	GLN	G1236	54.941	96.481	54.634	1.00	98.99	8
ATOM	18496	NE2	GLN	G1236	52.880	95.995	53.899	1.00	101.11	7
ATOM	18497	C	GLN	G1236	56.103	100.050	51.050	1.00	131.57	6
ATOM	18498	O	GLN	G1236	56.101	100.631	52.135	1.00	131.80	8
ATOM	18499	N	LEU	G1237	56.730	100.521	49.979	1.00	68.64	7
ATOM	18500	CA	LEU	G1237	57.460	101.782	50.028	1.00	68.64	6
ATOM	18501	CB	LEU	G1237	58.947	101.514	50.216	1.00	28.36	6
ATOM	18502	CG	LEU	G1237	59.410	100.516	51.267	1.00	27.11	6
ATOM	18503	CD1	LEU	G1237	60.925	100.605	51.322	1.00	26.70	6
ATOM	18504	CD2	LEU	G1237	58.805	100.801	52.635	1.00	25.91	6
ATOM	18505	C	LEU	G1237	57.284	102.625	48.772	1.00	70.01	6
ATOM	18506	O	LEU	G1237	57.446	102.132	47.656	1.00	70.65	8
ATOM	18507	N	THR	G1238	56.968	103.901	48.956	1.00	95.54	7
ATOM	18508	CA	THR	G1238	56.800	104.809	47.827	1.00	97.27	6
ATOM	18509	CB	THR	G1238	56.745	106.267	48.306	1.00	120.99	6
ATOM	18510	OG1	THR	G1238	55.718	106.402	49.298	1.00	120.97	8
ATOM	18511	CG2	THR	G1238	56.456	107.201	47.137	1.00	121.01	6
ATOM	18512	C	THR	G1238	57.988	104.634	46.876	1.00	98.11	6
ATOM	18513	O	THR	G1238	59.052	104.171	47.289	1.00	98.67	8
ATOM	18514	N	MET	G1239	57.815	105.002	45.611	1.00	90.25	7
ATOM	18515	CA	MET	G1239	58.894	104.838	44.644	1.00	91.46	6
ATOM	18516	CB	MET	G1239	58.542	103.713	43.669	1.00	80.46	6
ATOM	18517	CG	MET	G1239	59.572	103.454	42.572	1.00	80.17	6
ATOM	18518	SD	MET	G1239	61.150	102.780	43.144	1.00	79.14	16
ATOM	18519	CE	MET	G1239	62.270	104.163	42.830	1.00	79.80	6
ATOM	18520	C	MET	G1239	59.209	106.105	43.867	1.00	92.59	6
ATOM	18521	O	MET	G1239	60.097	106.112	43.010	1.00	92.57	8
ATOM	18522	N	ALA	G1240	58.492	107.181	44.172	1.00	165.07	7
ATOM	18523	CA	ALA	G1240	58.703	108.443	43.476	1.00	166.48	6
ATOM	18524	CB	ALA	G1240	57.382	108.952	42.921	1.00	169.27	6
ATOM	18525	C	ALA	G1240	59.344	109.522	44.335	1.00	166.70	6
ATOM	18526	O	ALA	G1240	59.209	109.528	45.559	1.00	166.35	8
ATOM	18527	N	ALA	G1241	60.045	110.437	43.677	1.00	131.55	7

ATOM	18528	CA	ALA	G1241	60.687	111.539	44.370	1.00132.39	6
ATOM	18529	CB	ALA	G1241	62.043	111.836	43.743	1.00177.09	6
ATOM	18530	C	ALA	G1241	59.760	112.741	44.232	1.00133.05	6
ATOM	18531	O	ALA	G1241	58.839	112.671	43.385	1.00133.52	8
ATOM	18532	OXT	ALA	G1241	59.963	113.732	44.966	1.00178.77	8
ATOM	18533	C	GLY	M1250	63.645	118.570	53.899	1.00135.19	6
ATOM	18534	O	GLY	M1250	64.510	119.354	53.505	1.00135.32	8
ATOM	18535	N	GLY	M1250	61.507	119.633	54.623	1.00135.29	7
ATOM	18536	CA	GLY	M1250	62.745	118.934	55.062	1.00135.34	6
ATOM	18537	N	THR	M1251	63.438	117.379	53.347	1.00165.37	7
ATOM	18538	CA	THR	M1251	64.232	116.894	52.223	1.00164.97	6
ATOM	18539	CB	THR	M1251	65.724	116.718	52.622	1.00135.22	6
ATOM	18540	OG1	THR	M1251	66.439	117.928	52.342	1.00136.14	8
ATOM	18541	CG2	THR	M1251	66.370	115.564	51.862	1.00134.02	6
ATOM	18542	C	THR	M1251	63.703	115.564	51.710	1.00164.45	6
ATOM	18543	O	THR	M1251	63.640	114.588	52.457	1.00165.00	8
ATOM	18544	N	ASP	M1252	63.320	115.534	50.434	1.00140.34	7
ATOM	18545	CA	ASP	M1252	62.817	114.310	49.816	1.00138.24	6
ATOM	18546	CB	ASP	M1252	62.416	114.544	48.352	1.00 81.45	6
ATOM	18547	CG	ASP	M1252	61.132	115.342	48.206	1.00 79.98	6
ATOM	18548	OD1	ASP	M1252	60.111	114.970	48.821	1.00 78.97	8
ATOM	18549	OD2	ASP	M1252	61.143	116.337	47.454	1.00 78.82	8
ATOM	18550	C	ASP	M1252	63.915	113.255	49.861	1.00137.69	6
ATOM	18551	O	ASP	M1252	64.943	113.447	50.513	1.00138.06	8
ATOM	18552	N	ILE	M1253	63.698	112.149	49.153	1.00 78.27	7
ATOM	18553	CA	ILE	M1253	64.657	111.051	49.116	1.00 76.99	6
ATOM	18554	CB	ILE	M1253	66.058	111.538	48.705	1.00150.94	6
ATOM	18555	CG2	ILE	M1253	67.068	110.455	48.972	1.00150.19	6
ATOM	18556	CG1	ILE	M1253	66.060	111.943	47.227	1.00151.66	6
ATOM	18557	CD1	ILE	M1253	67.401	112.440	46.716	1.00152.48	6
ATOM	18558	C	ILE	M1253	64.723	110.448	50.506	1.00 75.67	6
ATOM	18559	O	ILE	M1253	64.930	109.247	50.677	1.00 75.98	8
ATOM	18560	N	THR	M1254	64.548	111.311	51.497	1.00 94.13	7
ATOM	18561	CA	THR	M1254	64.542	110.910	52.890	1.00 92.70	6
ATOM	18562	CB	THR	M1254	64.702	112.154	53.831	1.00 85.16	6
ATOM	18563	OG1	THR	M1254	65.892	112.880	53.489	1.00 83.56	8
ATOM	18564	CG2	THR	M1254	64.806	111.721	55.279	1.00 85.77	6
ATOM	18565	C	THR	M1254	63.160	110.266	53.063	1.00 91.19	6
ATOM	18566	O	THR	M1254	62.555	110.320	54.133	1.00 91.52	8
ATOM	18567	N	GLN	M1255	62.675	109.656	51.982	1.00 65.57	7
ATOM	18568	CA	GLN	M1255	61.372	109.011	51.969	1.00 62.64	6
ATOM	18569	CB	GLN	M1255	60.315	109.979	51.442	1.00146.40	6
ATOM	18570	CG	GLN	M1255	60.056	111.181	52.319	1.00148.22	6
ATOM	18571	CD	GLN	M1255	59.021	112.101	51.712	1.00149.95	6
ATOM	18572	OE1	GLN	M1255	57.926	111.668	51.360	1.00150.11	8
ATOM	18573	NE2	GLN	M1255	59.361	113.377	51.587	1.00152.05	7
ATOM	18574	C	GLN	M1255	61.304	107.737	51.129	1.00 59.98	6
ATOM	18575	O	GLN	M1255	61.989	107.595	50.113	1.00 60.25	8
ATOM	18576	N	GLY	M1256	60.453	106.818	51.578	1.00 87.11	7
ATOM	18577	CA	GLY	M1256	60.222	105.561	50.883	1.00 81.72	6
ATOM	18578	C	GLY	M1256	61.389	104.677	50.505	1.00 77.98	6
ATOM	18579	O	GLY	M1256	62.517	104.871	50.948	1.00 77.97	8
ATOM	18580	N	LEU	M1257	61.086	103.693	49.667	1.00 63.28	7
ATOM	18581	CA	LEU	M1257	62.063	102.727	49.195	1.00 59.66	6
ATOM	18582	CB	LEU	M1257	61.394	101.738	48.230	1.00 66.92	6
ATOM	18583	CG	LEU	M1257	62.275	100.661	47.595	1.00 67.71	6

ATOM	18584	CD1	LEU	M1257	63.040	99.906	48.667	1.00	69.39	6
ATOM	18585	CD2	LEU	M1257	61.412	99.716	46.793	1.00	68.69	6
ATOM	18586	C	LEU	M1257	63.282	103.357	48.528	1.00	56.45	6
ATOM	18587	O	LEU	M1257	64.404	102.878	48.697	1.00	57.55	8
ATOM	18588	N	PRO	M1258	63.089	104.439	47.762	1.00	19.94	7
ATOM	18589	CD	PRO	M1258	61.880	105.163	47.348	1.00	15.83	6
ATOM	18590	CA	PRO	M1258	64.274	105.018	47.135	1.00	17.31	6
ATOM	18591	CB	PRO	M1258	63.720	106.248	46.448	1.00	14.49	6
ATOM	18592	CG	PRO	M1258	62.347	105.820	46.081	1.00	14.23	6
ATOM	18593	C	PRO	M1258	65.343	105.342	48.174	1.00	15.47	6
ATOM	18594	O	PRO	M1258	66.536	105.334	47.871	1.00	14.86	8
ATOM	18595	N	ARG	M1259	64.915	105.626	49.402	1.00	38.68	7
ATOM	18596	CA	ARG	M1259	65.865	105.922	50.462	1.00	38.22	6
ATOM	18597	CB	ARG	M1259	65.207	106.649	51.628	1.00	57.23	6
ATOM	18598	CG	ARG	M1259	66.203	106.853	52.745	1.00	58.34	6
ATOM	18599	CD	ARG	M1259	65.911	108.044	53.623	1.00	57.68	6
ATOM	18600	NE	ARG	M1259	67.073	108.386	54.445	1.00	58.11	7
ATOM	18601	CZ	ARG	M1259	68.235	108.806	53.952	1.00	58.58	6
ATOM	18602	NH1	ARG	M1259	68.405	108.940	52.643	1.00	58.25	7
ATOM	18603	NH2	ARG	M1259	69.233	109.090	54.768	1.00	58.51	7
ATOM	18604	C	ARG	M1259	66.475	104.628	50.968	1.00	37.61	6
ATOM	18605	O	ARG	M1259	67.696	104.481	51.009	1.00	37.32	8
ATOM	18606	N	VAL	M1260	65.620	103.689	51.353	1.00	32.94	7
ATOM	18607	CA	VAL	M1260	66.092	102.404	51.831	1.00	32.40	6
ATOM	18608	CB	VAL	M1260	64.979	101.356	51.885	1.00	23.47	6
ATOM	18609	CG1	VAL	M1260	65.369	100.298	52.871	1.00	23.67	6
ATOM	18610	CG2	VAL	M1260	63.652	101.979	52.240	1.00	21.57	6
ATOM	18611	C	VAL	M1260	67.158	101.884	50.868	1.00	33.31	6
ATOM	18612	O	VAL	M1260	68.000	101.080	51.246	1.00	34.63	8
ATOM	18613	N	ILE	M1261	67.101	102.319	49.614	1.00	42.94	7
ATOM	18614	CA	ILE	M1261	68.094	101.914	48.627	1.00	43.12	6
ATOM	18615	CB	ILE	M1261	67.543	102.059	47.170	1.00	27.14	6
ATOM	18616	CG2	ILE	M1261	68.630	102.609	46.208	1.00	25.72	6
ATOM	18617	CG1	ILE	M1261	67.006	100.711	46.689	1.00	28.42	6
ATOM	18618	CD1	ILE	M1261	68.076	99.636	46.488	1.00	31.25	6
ATOM	18619	C	ILE	M1261	69.302	102.831	48.813	1.00	43.58	6
ATOM	18620	O	ILE	M1261	70.411	102.368	49.095	1.00	43.96	8
ATOM	18621	N	GLU	M1262	69.064	104.133	48.669	1.00	36.27	7
ATOM	18622	CA	GLU	M1262	70.100	105.146	48.796	1.00	34.97	6
ATOM	18623	CB	GLU	M1262	69.445	106.524	48.929	1.00	26.80	6
ATOM	18624	CG	GLU	M1262	70.393	107.671	49.294	1.00	24.59	6
ATOM	18625	CD	GLU	M1262	69.711	109.048	49.269	1.00	23.28	6
ATOM	18626	OE1	GLU	M1262	69.557	109.607	48.165	1.00	20.64	8
ATOM	18627	OE2	GLU	M1262	69.328	109.573	50.345	1.00	20.75	8
ATOM	18628	C	GLU	M1262	71.044	104.880	49.961	1.00	35.19	6
ATOM	18629	O	GLU	M1262	72.245	105.158	49.862	1.00	34.77	8
ATOM	18630	N	LEU	M1263	70.501	104.334	51.053	1.00	34.38	7
ATOM	18631	CA	LEU	M1263	71.300	104.027	52.250	1.00	34.87	6
ATOM	18632	CB	LEU	M1263	70.418	103.894	53.503	1.00	32.86	6
ATOM	18633	CG	LEU	M1263	70.050	105.191	54.235	1.00	32.29	6
ATOM	18634	CD1	LEU	M1263	69.261	106.073	53.304	1.00	32.18	6
ATOM	18635	CD2	LEU	M1263	69.249	104.894	55.490	1.00	32.41	6
ATOM	18636	C	LEU	M1263	72.098	102.755	52.071	1.00	35.00	6
ATOM	18637	O	LEU	M1263	73.320	102.773	52.141	1.00	35.89	8
ATOM	18638	N	PHE	M1264	71.408	101.647	51.855	1.00	36.63	7
ATOM	18639	CA	PHE	M1264	72.086	100.387	51.639	1.00	38.06	6

ATOM	18640	CB	PHE	M1264	71.101	99.370	51.078	1.00	33.57	6
ATOM	18641	CG	PHE	M1264	70.324	98.647	52.123	1.00	31.87	6
ATOM	18642	CD1	PHE	M1264	69.067	98.145	51.839	1.00	31.56	6
ATOM	18643	CD2	PHE	M1264	70.865	98.429	53.379	1.00	31.81	6
ATOM	18644	CE1	PHE	M1264	68.356	97.437	52.783	1.00	31.35	6
ATOM	18645	CE2	PHE	M1264	70.167	97.721	54.336	1.00	31.51	6
ATOM	18646	CZ	PHE	M1264	68.910	97.223	54.039	1.00	31.65	6
ATOM	18647	C	PHE	M1264	73.218	100.610	50.643	1.00	41.11	6
ATOM	18648	O	PHE	M1264	74.280	99.991	50.736	1.00	42.16	8
ATOM	18649	N	GLU	M1265	72.982	101.526	49.708	1.00	56.57	7
ATOM	18650	CA	GLU	M1265	73.947	101.834	48.667	1.00	58.00	6
ATOM	18651	CB	GLU	M1265	73.203	102.235	47.400	1.00	60.16	6
ATOM	18652	CG	GLU	M1265	73.947	101.861	46.157	1.00	61.97	6
ATOM	18653	CD	GLU	M1265	74.040	100.370	46.003	1.00	63.74	6
ATOM	18654	OE1	GLU	M1265	73.115	99.789	45.394	1.00	64.22	8
ATOM	18655	OE2	GLU	M1265	75.026	99.786	46.507	1.00	64.82	8
ATOM	18656	C	GLU	M1265	74.975	102.911	49.021	1.00	58.20	6
ATOM	18657	O	GLU	M1265	76.126	102.828	48.601	1.00	59.28	8
ATOM	18658	N	ALA	M1266	74.563	103.928	49.770	1.00	34.07	7
ATOM	18659	CA	ALA	M1266	75.477	104.997	50.174	1.00	34.49	6
ATOM	18660	CB	ALA	M1266	76.760	104.403	50.737	1.00	15.71	6
ATOM	18661	C	ALA	M1266	75.814	105.935	49.031	1.00	34.66	6
ATOM	18662	O	ALA	M1266	76.415	105.517	48.046	1.00	33.92	8
ATOM	18663	N	ARG	M1267	75.436	107.205	49.183	1.00	20.97	7
ATOM	18664	CA	ARG	M1267	75.675	108.251	48.176	1.00	22.91	6
ATOM	18665	CB	ARG	M1267	74.741	108.084	46.977	1.00	82.15	6
ATOM	18666	CG	ARG	M1267	75.058	106.924	46.081	1.00	85.87	6
ATOM	18667	CD	ARG	M1267	73.828	106.517	45.311	1.00	88.20	6
ATOM	18668	NE	ARG	M1267	74.045	105.280	44.577	1.00	90.48	7
ATOM	18669	CZ	ARG	M1267	73.069	104.471	44.189	1.00	91.44	6
ATOM	18670	NH1	ARG	M1267	71.808	104.772	44.471	1.00	92.06	7
ATOM	18671	NH2	ARG	M1267	73.357	103.361	43.525	1.00	92.25	7
ATOM	18672	C	ARG	M1267	75.455	109.644	48.735	1.00	22.51	6
ATOM	18673	O	ARG	M1267	75.015	109.811	49.855	1.00	20.90	8
ATOM	18674	N	ARG	M1268	75.752	110.634	47.914	1.00	37.10	7
ATOM	18675	CA	ARG	M1268	75.599	112.033	48.271	1.00	40.41	6
ATOM	18676	CB	ARG	M1268	76.660	112.843	47.515	1.00	77.67	6
ATOM	18677	CG	ARG	M1268	76.702	114.329	47.824	1.00	79.69	6
ATOM	18678	CD	ARG	M1268	77.613	114.667	49.010	1.00	82.36	6
ATOM	18679	NE	ARG	M1268	77.808	116.115	49.132	1.00	85.06	7
ATOM	18680	CZ	ARG	M1268	78.622	116.701	50.005	1.00	85.75	6
ATOM	18681	NH1	ARG	M1268	79.332	115.970	50.852	1.00	87.35	7
ATOM	18682	NH2	ARG	M1268	78.733	118.022	50.021	1.00	84.62	7
ATOM	18683	C	ARG	M1268	74.174	112.480	47.878	1.00	41.76	6
ATOM	18684	O	ARG	M1268	73.990	113.251	46.939	1.00	43.93	8
ATOM	18685	N	PRO	M1269	73.152	112.019	48.617	1.00	61.56	7
ATOM	18686	CD	PRO	M1269	73.394	111.513	49.971	1.00	19.49	6
ATOM	18687	CA	PRO	M1269	71.715	112.276	48.458	1.00	61.86	6
ATOM	18688	CB	PRO	M1269	71.133	111.631	49.686	1.00	20.65	6
ATOM	18689	CG	PRO	M1269	72.167	111.953	50.678	1.00	19.82	6
ATOM	18690	C	PRO	M1269	71.267	113.722	48.374	1.00	62.20	6
ATOM	18691	O	PRO	M1269	72.081	114.643	48.362	1.00	63.87	8
ATOM	18692	N	LYS	M1270	69.947	113.900	48.355	1.00	64.12	7
ATOM	18693	CA	LYS	M1270	69.346	115.224	48.279	1.00	63.81	6
ATOM	18694	CB	LYS	M1270	67.819	115.139	48.375	1.00	92.45	6
ATOM	18695	CG	LYS	M1270	67.130	116.503	48.360	1.00	93.83	6

ATOM	18696	CD	LYS	M1270	65.647	116.411	48.686	1.00	94.46	6
ATOM	18697	CE	LYS	M1270	65.036	117.802	48.806	1.00	95.14	6
ATOM	18698	NZ	LYS	M1270	63.612	117.811	49.256	1.00	96.33	7
ATOM	18699	C	LYS	M1270	69.864	116.137	49.388	1.00	62.75	6
ATOM	18700	O	LYS	M1270	70.511	117.154	49.121	1.00	62.13	8
ATOM	18701	N	ALA	M1271	69.582	115.772	50.632	1.00	34.64	7
ATOM	18702	CA	ALA	M1271	70.014	116.572	51.770	1.00	31.35	6
ATOM	18703	CB	ALA	M1271	69.802	115.787	53.051	1.00	47.33	6
ATOM	18704	C	ALA	M1271	71.462	117.039	51.692	1.00	29.53	6
ATOM	18705	O	ALA	M1271	71.730	118.229	51.579	1.00	28.66	8
ATOM	18706	N	ALA	M1272	72.388	116.089	51.753	1.00	45.65	7
ATOM	18707	CA	ALA	M1272	73.813	116.392	51.727	1.00	45.37	6
ATOM	18708	CB	ALA	M1272	74.160	117.172	50.470	1.00	44.00	6
ATOM	18709	C	ALA	M1272	74.136	117.210	52.986	1.00	44.52	6
ATOM	18710	O	ALA	M1272	75.193	117.831	53.094	1.00	43.90	8
ATOM	18711	N	ALA	M1273	73.203	117.178	53.934	1.00	36.55	7
ATOM	18712	CA	ALA	M1273	73.306	117.878	55.214	1.00	36.06	6
ATOM	18713	CB	ALA	M1273	72.439	117.150	56.258	1.00	37.25	6
ATOM	18714	C	ALA	M1273	74.738	117.984	55.717	1.00	35.72	6
ATOM	18715	O	ALA	M1273	75.290	116.991	56.171	1.00	36.51	8
ATOM	18716	N	VAL	M1274	75.335	119.176	55.660	1.00	36.79	7
ATOM	18717	CA	VAL	M1274	76.725	119.351	56.121	1.00	37.99	6
ATOM	18718	CB	VAL	M1274	77.232	120.821	56.015	1.00	53.09	6
ATOM	18719	CG1	VAL	M1274	78.654	120.805	55.484	1.00	54.50	6
ATOM	18720	CG2	VAL	M1274	76.340	121.665	55.118	1.00	53.07	6
ATOM	18721	C	VAL	M1274	76.942	118.893	57.563	1.00	37.44	6
ATOM	18722	O	VAL	M1274	76.051	119.008	58.409	1.00	37.19	8
ATOM	18723	N	ILE	M1275	78.140	118.382	57.839	1.00	35.91	7
ATOM	18724	CA	ILE	M1275	78.459	117.873	59.168	1.00	38.90	6
ATOM	18725	CB	ILE	M1275	78.560	116.324	59.158	1.00	62.31	6
ATOM	18726	CG2	ILE	M1275	77.233	115.727	59.584	1.00	63.25	6
ATOM	18727	CG1	ILE	M1275	78.937	115.812	57.760	1.00	63.17	6
ATOM	18728	CD1	ILE	M1275	80.242	116.339	57.229	1.00	64.53	6
ATOM	18729	C	ILE	M1275	79.735	118.432	59.758	1.00	38.86	6
ATOM	18730	O	ILE	M1275	80.831	118.168	59.260	1.00	38.84	8
ATOM	18731	N	SER	M1276	79.590	119.196	60.835	1.00	24.22	7
ATOM	18732	CA	SER	M1276	80.741	119.806	61.491	1.00	26.41	6
ATOM	18733	CB	SER	M1276	80.362	120.285	62.893	1.00	91.16	6
ATOM	18734	OG	SER	M1276	81.423	121.009	63.487	1.00	95.56	8
ATOM	18735	C	SER	M1276	81.914	118.827	61.568	1.00	26.43	6
ATOM	18736	O	SER	M1276	81.778	117.718	62.080	1.00	25.83	8

ATOM	18752	C	ILE	M1278	84.266	119.388	65.557	1.00	61.31	6
ATOM	18753	O	ILE	M1278	83.082	119.311	65.256	1.00	62.17	8
ATOM	18754	N	ASP	M1279	84.706	119.223	66.799	1.00	95.73	7
ATOM	18755	CA	ASP	M1279	83.764	119.030	67.883	1.00	96.52	6
ATOM	18756	CB	ASP	M1279	84.324	118.128	68.987	1.00	119.40	6
ATOM	18757	CG	ASP	M1279	85.803	117.870	68.844	1.00	121.23	6
ATOM	18758	OD1	ASP	M1279	86.219	117.271	67.826	1.00	121.73	8
ATOM	18759	OD2	ASP	M1279	86.551	118.263	69.762	1.00	122.14	8
ATOM	18760	C	ASP	M1279	83.601	120.450	68.376	1.00	96.37	6
ATOM	18761	O	ASP	M1279	82.947	120.711	69.386	1.00	98.12	8
ATOM	18762	N	GLY	M1280	84.208	121.358	67.612	1.00	18.28	7
ATOM	18763	CA	GLY	M1280	84.189	122.785	67.902	1.00	17.31	6
ATOM	18764	C	GLY	M1280	82.995	123.529	68.520	1.00	16.53	6
ATOM	18765	O	GLY	M1280	82.131	122.948	69.183	1.00	15.06	8
ATOM	18766	N	VAL	M1281	82.947	124.841	68.267	1.00	35.72	7
ATOM	18767	CA	VAL	M1281	81.923	125.704	68.840	1.00	37.74	6
ATOM	18768	CB	VAL	M1281	82.541	126.445	70.046	1.00	95.01	6
ATOM	18769	CG1	VAL	M1281	81.505	127.221	70.786	1.00	95.60	6
ATOM	18770	CG2	VAL	M1281	83.204	125.441	70.980	1.00	96.27	6
ATOM	18771	C	VAL	M1281	81.251	126.732	67.907	1.00	39.27	6
ATOM	18772	O	VAL	M1281	81.659	126.927	66.760	1.00	38.88	8
ATOM	18773	N	VAL	M1282	80.204	127.359	68.451	1.00	59.53	7
ATOM	18774	CA	VAL	M1282	79.359	128.413	67.851	1.00	61.86	6
ATOM	18775	CB	VAL	M1282	79.665	129.813	68.503	1.00	151.80	6
ATOM	18776	CG1	VAL	M1282	78.438	130.725	68.403	1.00	152.73	6
ATOM	18777	CG2	VAL	M1282	80.106	129.662	69.935	1.00	152.82	6
ATOM	18778	C	VAL	M1282	79.324	128.682	66.345	1.00	62.54	6
ATOM	18779	O	VAL	M1282	79.164	127.784	65.520	1.00	61.75	8
ATOM	18780	N	ARG	M1283	79.435	129.987	66.070	1.00	98.63	7
ATOM	18781	CA	ARG	M1283	79.467	130.688	64.783	1.00	100.02	6
ATOM	18782	CB	ARG	M1283	80.839	130.549	64.133	1.00	92.86	6
ATOM	18783	CG	ARG	M1283	81.221	131.785	63.340	1.00	91.12	6
ATOM	18784	CD	ARG	M1283	81.274	133.019	64.232	1.00	89.92	6
ATOM	18785	NE	ARG	M1283	81.475	134.230	63.447	1.00	89.26	7
ATOM	18786	CZ	ARG	M1283	82.586	134.500	62.772	1.00	88.80	6
ATOM	18787	NH1	ARG	M1283	83.605	133.648	62.795	1.00	89.04	7
ATOM	18788	NH2	ARG	M1283	82.668	135.607	62.047	1.00	88.44	7
ATOM	18789	C	ARG	M1283	78.421	130.503	63.709	1.00	101.02	6
ATOM	18790	O	ARG	M1283	77.895	129.418	63.495	1.00	101.79	8
ATOM	18791	N	ILE	M1284	78.170	131.618	63.026	1.00	41.68	7
ATOM	18792	CA	ILE	M1284	77.211	131.754	61.931	1.00	43.84</	

ATOM	18808	N	GLU	M1286	75.471	135.737	58.609	1.00113.24	7
ATOM	18809	CA	GLU	M1286	74.544	135.976	57.504	1.00114.27	6
ATOM	18810	CB	GLU	M1286	73.220	136.562	58.012	1.00131.82	6
ATOM	18811	CG	GLU	M1286	72.253	136.934	56.879	1.00133.69	6
ATOM	18812	CD	GLU	M1286	71.074	137.783	57.339	1.00134.22	6
ATOM	18813	OE1	GLU	M1286	70.298	137.314	58.194	1.00133.52	8
ATOM	18814	OE2	GLU	M1286	70.921	138.920	56.841	1.00134.82	8
ATOM	18815	C	GLU	M1286	75.070	136.897	56.415	1.00114.18	6
ATOM	18816	O	GLU	M1286	75.340	138.074	56.647	1.00114.30	8
ATOM	18817	N	GLY	M1287	75.199	136.347	55.219	1.00127.50	7
ATOM	18818	CA	GLY	M1287	75.643	137.131	54.088	1.00128.07	6
ATOM	18819	C	GLY	M1287	74.478	137.104	53.123	1.00128.48	6
ATOM	18820	O	GLY	M1287	73.755	136.108	53.070	1.00128.72	8
ATOM	18821	N	ALA	M1288	74.272	138.180	52.373	1.00152.12	7
ATOM	18822	CA	ALA	M1288	73.168	138.226	51.419	1.00152.14	6
ATOM	18823	CB	ALA	M1288	73.392	139.354	50.404	1.00154.91	6
ATOM	18824	C	ALA	M1288	73.029	136.883	50.696	1.00151.69	6
ATOM	18825	O	ALA	M1288	71.920	136.410	50.443	1.00151.82	8
ATOM	18826	N	ASP	M1289	74.166	136.267	50.389	1.00103.92	7
ATOM	18827	CA	ASP	M1289	74.194	134.988	49.692	1.00102.41	6
ATOM	18828	CB	ASP	M1289	74.495	135.218	48.205	1.00 56.26	6
ATOM	18829	CG	ASP	M1289	73.252	135.566	47.388	1.00 54.29	6
ATOM	18830	OD1	ASP	M1289	72.430	134.658	47.145	1.00 53.95	8
ATOM	18831	OD2	ASP	M1289	73.101	136.741	46.987	1.00 53.57	8
ATOM	18832	C	ASP	M1289	75.243	134.046	50.281	1.00102.06	6
ATOM	18833	O	ASP	M1289	75.882	133.300	49.547	1.00102.17	8
ATOM	18834	N	ARG	M1290	75.416	134.078	51.601	1.00177.42	7
ATOM	18835	CA	ARG	M1290	76.397	133.220	52.267	1.00176.35	6
ATOM	18836	CB	ARG	M1290	77.804	133.826	52.140	1.00111.88	6
ATOM	18837	CG	ARG	M1290	78.360	133.864	50.726	1.00112.71	6
ATOM	18838	CD	ARG	M1290	78.532	132.452	50.178	1.00114.01	6
ATOM	18839	NE	ARG	M1290	78.809	132.437	48.744	1.00115.25	7
ATOM	18840	CZ	ARG	M1290	78.931	131.332	48.015	1.00115.11	6
ATOM	18841	NH1	ARG	M1290	78.802	130.138	48.576	1.00115.12	7
ATOM	18842	NH2	ARG	M1290	79.176	131.423	46.718	1.00115.37	7
ATOM	18843	C	ARG	M1290	76.090	133.005	53.752	1.00174.64	6
ATOM	18844	O	ARG	M1290	76.438	133.852	54.577	1.00174.46	8
ATOM	18845	N	LEU	M1291	75.451	131.886	54.103	1.00 53.05	7
ATOM	18846	CA	LEU	M1291	75.147	131.627	55.515	1.00 50.77	6
ATOM	18847	CB	LEU	M1291	74.052	130.564	55.663	1.00153.51	6
ATOM	18848	CG	LEU	M1291	72.652	131.090	56.006	1.00154.05	6
ATOM	18849	CD1	LEU	M1291	72.059	131.822	54.809	1.00154.44	6
ATOM	18850	CD2	LEU	M1291	71.757	129.931	56.416	1.00155.06	6
ATOM	18851	C	LEU	M1291	76.400	131.187	56.280	1.00 49.06	6
ATOM	18852	O	LEU	M1291	76.445	131.216	57.519	1.00 48.84	8
ATOM	18853	N	SER	M1292	77.410	130.788	55.514	1.00102.48	7
ATOM	18854	CA	SER	M1292	78.695	130.339	56.035	1.00101.03	6
ATOM	18855	CB	SER	M1292	79.778	131.354	55.658	1.00138.13	6
ATOM	18856	OG	SER	M1292	79.417	132.655	56.087	1.00141.06	8
ATOM	18857	C	SER	M1292	78.748	130.065	57.538	1.00 98.69	6
ATOM	18858	O	SER	M1292	79.463	130.745	58.267	1.00 99.06	8
ATOM	18859	N	VAL	M1293	77.986	129.073	57.994	1.00 37.22	7
ATOM	18860	CA	VAL	M1293	77.973	128.683	59.405	1.00 33.89	6
ATOM	18861	CB	VAL	M1293	77.025	127.480	59.652	1.00 24.86	6
ATOM	18862	CG1	VAL	M1293	77.162	126.998	61.069	1.00 23.47	6
ATOM	18863	CG2	VAL	M1293	75.594	127.860	59.372	1.00 24.56	6

ATOM	18864	C	VAL	M1293	79.386	128.222	59.763	1.00	33.09	6
ATOM	18865	O	VAL	M1293	79.828	127.192	59.260	1.00	32.16	8
ATOM	18866	N	PHE	M1294	80.099	128.972	60.605	1.00	59.03	7
ATOM	18867	CA	PHE	M1294	81.453	128.566	60.981	1.00	58.35	6
ATOM	18868	CB	PHE	M1294	82.343	129.738	61.401	1.00	99.37	6
ATOM	18869	CG	PHE	M1294	82.564	130.785	60.356	1.00	100.89	6
ATOM	18870	CD1	PHE	M1294	81.513	131.563	59.890	1.00	101.42	6
ATOM	18871	CD2	PHE	M1294	83.851	131.071	59.917	1.00	101.34	6
ATOM	18872	CE1	PHE	M1294	81.742	132.621	59.009	1.00	101.34	6
ATOM	18873	CE2	PHE	M1294	84.091	132.123	59.040	1.00	101.32	6
ATOM	18874	CZ	PHE	M1294	83.035	132.902	58.585	1.00	101.85	6
ATOM	18875	C	PHE	M1294	81.397	127.664	62.192	1.00	58.03	6
ATOM	18876	O	PHE	M1294	80.399	127.619	62.899	1.00	58.40	8
ATOM	18877	N	VAL	M1295	82.496	126.957	62.420	1.00	42.46	7
ATOM	18878	CA	VAL	M1295	82.675	126.089	63.578	1.00	42.27	6
ATOM	18879	CB	VAL	M1295	82.673	124.601	63.221	1.00	81.31	6
ATOM	18880	CG1	VAL	M1295	83.464	123.816	64.265	1.00	81.68	6
ATOM	18881	CG2	VAL	M1295	81.252	124.090	63.175	1.00	82.09	6
ATOM	18882	C	VAL	M1295	84.081	126.478	63.952	1.00	42.78	6
ATOM	18883	O	VAL	M1295	84.895	126.703	63.058	1.00	43.54	8
ATOM	18884	N	GLU	M1296	84.385	126.577	65.243	1.00	57.95	7
ATOM	18885	CA	GLU	M1296	85.735	126.972	65.626	1.00	58.50	6
ATOM	18886	CB	GLU	M1296	85.979	128.433	65.228	1.00	53.08	6
ATOM	18887	CG	GLU	M1296	85.075	129.430	65.944	1.00	51.32	6
ATOM	18888	CD	GLU	M1296	84.901	130.742	65.183	1.00	50.83	6
ATOM	18889	OE1	GLU	M1296	84.295	131.680	65.744	1.00	50.78	8
ATOM	18890	OE2	GLU	M1296	85.354	130.838	64.022	1.00	49.13	8
ATOM	18891	C	GLU	M1296	86.062	126.807	67.091	1.00	59.33	6
ATOM	18892	O	GLU	M1296	85.259	127.138	67.961	1.00	58.10	8
ATOM	18893	N	SER	M1297	87.255	126.284	67.348	1.00	64.61	7
ATOM	18894	CA	SER	M1297	87.745	126.107	68.707	1.00	68.46	6
ATOM	18895	CB	SER	M1297	88.637	124.861	68.810	1.00	113.52	6
ATOM	18896	OG	SER	M1297	87.894	123.660	68.675	1.00	116.51	8
ATOM	18897	C	SER	M1297	88.583	127.352	68.971	1.00	70.65	6
ATOM	18898	O	SER	M1297	88.364	128.392	68.357	1.00	71.33	8
ATOM	18899	N	GLU	M1298	89.528	127.256	69.895	1.00	82.71	7
ATOM	18900	CA	GLU	M1298	90.413	128.375	70.159	1.00	84.60	6
ATOM	18901	CB	GLU	M1298	90.840	128.403	71.625	1.00	116.20	6
ATOM	18902	CG	GLU	M1298	91.751	127.258	72.014	1.00	118.49	6
ATOM	18903	CD	GLU	M1298	92.100	127.279	73.482	1.00	120.31	6
ATOM	18904	OE1	GLU	M1298	91.161	127.255	74.310			



ATOM	18920	CZ	PHE	M1300	90.948	121.873	64.655	1.00117.75	6
ATOM	18921	C	PHE	M1300	89.549	127.141	64.204	1.00 50.22	6
ATOM	18922	O	PHE	M1300	88.685	126.905	65.056	1.00 49.97	8
ATOM	18923	N	SER	M1301	89.253	127.520	62.965	1.00 85.62	7
ATOM	18924	CA	SER	M1301	87.878	127.693	62.532	1.00 86.63	6
ATOM	18925	CB	SER	M1301	87.617	129.164	62.215	1.00125.65	6
ATOM	18926	OG	SER	M1301	87.829	129.960	63.363	1.00127.19	8
ATOM	18927	C	SER	M1301	87.565	126.832	61.319	1.00 86.63	6
ATOM	18928	O	SER	M1301	88.452	126.188	60.757	1.00 86.83	8
ATOM	18929	N	LYS	M1302	86.295	126.831	60.925	1.00 65.54	7
ATOM	18930	CA	LYS	M1302	85.823	126.046	59.790	1.00 66.43	6
ATOM	18931	CB	LYS	M1302	85.272	124.710	60.287	1.00142.22	6
ATOM	18932	CG	LYS	M1302	85.263	123.599	59.260	1.00143.00	6
ATOM	18933	CD	LYS	M1302	86.625	122.950	59.145	1.00145.79	6
ATOM	18934	CE	LYS	M1302	86.574	121.756	58.211	1.00148.24	6
ATOM	18935	NZ	LYS	M1302	87.856	120.995	58.173	1.00149.32	7
ATOM	18936	C	LYS	M1302	84.708	126.824	59.098	1.00 66.84	6
ATOM	18937	O	LYS	M1302	83.828	127.369	59.764	1.00 66.13	8
ATOM	18938	N	GLU	M1303	84.747	126.879	57.769	1.00 97.90	7
ATOM	18939	CA	GLU	M1303	83.721	127.590	57.006	1.00 98.72	6
ATOM	18940	CB	GLU	M1303	84.364	128.545	55.997	1.00169.03	6
ATOM	18941	CG	GLU	M1303	85.008	129.767	56.628	1.00169.15	6
ATOM	18942	CD	GLU	M1303	85.583	130.725	55.603	1.00170.20	6
ATOM	18943	OE1	GLU	M1303	86.517	130.332	54.872	1.00170.40	8
ATOM	18944	OE2	GLU	M1303	85.101	131.873	55.525	1.00170.55	8
ATOM	18945	C	GLU	M1303	82.778	126.629	56.279	1.00 98.98	6
ATOM	18946	O	GLU	M1303	83.201	125.580	55.788	1.00100.07	8
ATOM	18947	N	TYR	M1304	81.497	126.994	56.214	1.00115.98	7
ATOM	18948	CA	TYR	M1304	80.491	126.157	55.569	1.00115.37	6
ATOM	18949	CB	TYR	M1304	79.583	125.539	56.638	1.00 59.99	6
ATOM	18950	CG	TYR	M1304	80.315	124.509	57.451	1.00 59.78	6
ATOM	18951	CD1	TYR	M1304	81.440	124.852	58.177	1.00 60.41	6
ATOM	18952	CE1	TYR	M1304	82.205	123.895	58.826	1.00 61.28	6
ATOM	18953	CD2	TYR	M1304	79.959	123.178	57.406	1.00 59.60	6
ATOM	18954	CE2	TYR	M1304	80.719	122.207	58.058	1.00 60.64	6
ATOM	18955	CZ	TYR	M1304	81.844	122.574	58.760	1.00 61.10	6
ATOM	18956	OH	TYR	M1304	82.639	121.625	59.355	1.00 63.64	8
ATOM	18957	C	TYR	M1304	79.644	126.831	54.499	1.00116.12	6
ATOM	18958	O	TYR	M1304	78.767	127.635	54.797	1.00116.18	8
ATOM	18959	N	LYS	M1305	79.925	126.491	53.247	1.00140.45	7
ATOM	18960	CA	LYS	M1305	79.181	127.019	52.113	1.00141.79	6
ATOM	18961	CB	LYS	M1305	79.703	126.396	50.808	1.00169.80	6
ATOM	18962	CG	LYS	M1305	79.570	124.866	50.713	1.00170.32	6
ATOM	18963	CD	LYS	M1305	80.336	124.146	51.818	1.00171.27	6
ATOM	18964	CE	LYS	M1305	80.011	122.661	51.840	1.00171.48	6
ATOM	18965	NZ	LYS	M1305	80.697	121.959	52.959	1.00172.56	7
ATOM	18966	C	LYS	M1305	77.723	126.634	52.332	1.00142.65	6
ATOM	18967	O	LYS	M1305	77.270	125.591	51.860	1.00143.43	8
ATOM	18968	N	LEU	M1306	76.984	127.474	53.048	1.00133.27	7
ATOM	18969	CA	LEU	M1306	75.591	127.161	53.339	1.00134.57	6
ATOM	18970	CB	LEU	M1306	75.416	127.011	54.850	1.00 72.93	6
ATOM	18971	CG	LEU	M1306	74.078	126.476	55.345	1.00 74.33	6
ATOM	18972	CD1	LEU	M1306	73.728	125.202	54.590	1.00 74.92	6
ATOM	18973	CD2	LEU	M1306	74.160	126.221	56.847	1.00 74.31	6
ATOM	18974	C	LEU	M1306	74.557	128.146	52.798	1.00135.34	6
ATOM	18975	O	LEU	M1306	74.504	129.300	53.221	1.00135.88	8

ATOM	18976	N	PRO	M1307	73.736	127.699	51.830	1.00	74.34	7
ATOM	18977	CD	PRO	M1307	74.106	126.586	50.946	1.00	129.51	6
ATOM	18978	CA	PRO	M1307	72.680	128.500	51.203	1.00	74.47	6
ATOM	18979	CB	PRO	M1307	72.743	128.075	49.733	1.00	130.28	6
ATOM	18980	CG	PRO	M1307	74.028	127.251	49.614	1.00	130.06	6
ATOM	18981	C	PRO	M1307	71.341	128.120	51.832	1.00	75.61	6
ATOM	18982	O	PRO	M1307	71.300	127.285	52.735	1.00	76.06	8
ATOM	18983	N	LYS	M1308	70.259	128.718	51.337	1.00	161.78	7
ATOM	18984	CA	LYS	M1308	68.891	128.466	51.815	1.00	162.39	6
ATOM	18985	CB	LYS	M1308	67.908	128.594	50.645	1.00	154.21	6
ATOM	18986	CG	LYS	M1308	68.152	129.780	49.729	1.00	154.31	6
ATOM	18987	CD	LYS	M1308	67.253	129.718	48.500	1.00	153.70	6
ATOM	18988	CE	LYS	M1308	67.531	130.879	47.560	1.00	153.41	6
ATOM	18989	NZ	LYS	M1308	66.651	130.838	46.364	1.00	153.40	7
ATOM	18990	C	LYS	M1308	68.678	127.090	52.464	1.00	162.62	6
ATOM	18991	O	LYS	M1308	68.168	126.173	51.820	1.00	163.21	8
ATOM	18992	N	ALA	M1309	69.040	126.950	53.735	1.00	136.19	7
ATOM	18993	CA	ALA	M1309	68.878	125.675	54.428	1.00	136.08	6
ATOM	18994	CB	ALA	M1309	70.096	124.798	54.199	1.00	66.84	6
ATOM	18995	C	ALA	M1309	68.664	125.881	55.919	1.00	135.99	6
ATOM	18996	O	ALA	M1309	69.207	126.811	56.507	1.00	136.64	8
ATOM	18997	N	ALA	M1310	67.878	124.998	56.525	1.00	106.87	7
ATOM	18998	CA	ALA	M1310	67.573	125.072	57.951	1.00	106.10	6
ATOM	18999	CB	ALA	M1310	66.575	123.978	58.307	1.00	147.46	6
ATOM	19000	C	ALA	M1310	68.824	124.961	58.837	1.00	105.72	6
ATOM	19001	O	ALA	M1310	69.120	123.900	59.385	1.00	106.16	8
ATOM	19002	N	ALA	M1311	69.543	126.067	58.998	1.00	103.72	7
ATOM	19003	CA	ALA	M1311	70.762	126.059	59.800	1.00	103.23	6
ATOM	19004	CB	ALA	M1311	71.808	126.973	59.166	1.00	38.90	6
ATOM	19005	C	ALA	M1311	70.564	126.442	61.258	1.00	103.42	6
ATOM	19006	O	ALA	M1311	70.879	127.567	61.646	1.00	103.61	8
ATOM	19007	N	LEU	M1312	70.067	125.508	62.069	1.00	181.17	7
ATOM	19008	CA	LEU	M1312	69.845	125.778	63.490	1.00	180.81	6
ATOM	19009	CB	LEU	M1312	69.559	124.476	64.250	1.00	186.51	6
ATOM	19010	CG	LEU	M1312	68.198	123.805	64.035	1.00	187.60	6
ATOM	19011	CD1	LEU	M1312	68.016	123.415	62.578	1.00	187.30	6
ATOM	19012	CD2	LEU	M1312	68.106	122.582	64.927	1.00	188.28	6
ATOM	19013	C	LEU	M1312	71.050	126.496	64.105	1.00	179.46	6
ATOM	19014	O	LEU	M1312	72.124	125.919	64.267	1.00	179.00	8
ATOM	19015	N	LEU	M1313	70.857	127.767	64.439	1.00	82.28	7
ATOM	19016	CA	LEU	M1313	71.912	128.588	65.017	1.00	81.18	6
ATOM	19017	CB	LEU	M1313	71.409	130.025	65.222	1.00	208.87	6
ATOM	19018	CG	LEU	M1313	70.487	130.687	64.186	1.00	208.87	6
ATOM	19019	CD1	LEU	M1313	70.262	132.143	64.583	1.00	208.87	6
ATOM	19020	CD2	LEU	M1313	71.092	130.616	62.795	1.00	208.87	6
ATOM	19021	C	LEU	M1313	72.369	128.023	66.354	1.00	80.04	6
ATOM	19022	O	LEU	M1313	72.596	126.822	66.481	1.00	79.91	8
ATOM	19023	N	ALA	M1314	72.501	128.917	67.333	1.00	141.50	7
ATOM	19024	CA	ALA	M1314	72.917	128.597	68.693	1.00	140.89	6
ATOM	19025	CB	ALA	M1314	72.582	127.148	69.032	1.00	136.16	6
ATOM	19026	C	ALA	M1314	74.396	128.867	68.946	1.00	140.12	6
ATOM	19027	O	ALA	M1314	74.909	129.933	68.592	1.00	140.20	8
ATOM	19028	N	ALA	M1315	75.070	127.897	69.566	1.00	67.06	7
ATOM	19029	CA	ALA	M1315	76.490	128.012	69.902	1.00	65.06	6
ATOM	19030	CB	ALA	M1315	76.713	129.276	70.725	1.00	121.14	6
ATOM	19031	C	ALA	M1315	77.048	126.781	70.649	1.00	63.78	6

ATOM	19032	O	ALA	M1315	76.370	125.762	70.783	1.00	64.29	8
ATOM	19033	N	ASP	M1316	78.285	126.904	71.132	1.00	77.21	7
ATOM	19034	CA	ASP	M1316	78.999	125.841	71.848	1.00	76.28	6
ATOM	19035	CB	ASP	M1316	78.762	125.949	73.383	1.00	39.27	6
ATOM	19036	CG	ASP	M1316	79.983	126.538	74.151	1.00	36.80	6
ATOM	19037	OD1	ASP	M1316	81.081	125.944	74.152	1.00	36.63	8
ATOM	19038	OD2	ASP	M1316	79.855	127.609	74.766	1.00	35.24	8
ATOM	19039	C	ASP	M1316	78.717	124.414	71.338	1.00	76.42	6
ATOM	19040	O	ASP	M1316	77.698	124.141	70.694	1.00	76.45	8
ATOM	19041	N	GLY	M1317	79.665	123.519	71.606	1.00	174.10	7
ATOM	19042	CA	GLY	M1317	79.551	122.129	71.200	1.00	174.06	6
ATOM	19043	C	GLY	M1317	79.249	121.876	69.735	1.00	173.96	6
ATOM	19044	O	GLY	M1317	78.716	122.745	69.046	1.00	174.32	8
ATOM	19045	N	ALA	M1318	79.600	120.677	69.271	1.00	93.21	7
ATOM	19046	CA	ALA	M1318	79.378	120.226	67.892	1.00	92.30	6
ATOM	19047	CB	ALA	M1318	79.327	121.421	66.919	1.00	95.94	6
ATOM	19048	C	ALA	M1318	80.473	119.251	67.456	1.00	91.75	6
ATOM	19049	O	ALA	M1318	81.432	119.658	66.813	1.00	91.28	8
ATOM	19050	N	ALA	M1319	80.326	117.971	67.801	1.00	38.87	7
ATOM	19051	CA	ALA	M1319	81.304	116.936	67.437	1.00	39.23	6
ATOM	19052	CB	ALA	M1319	81.009	115.661	68.234	1.00	87.05	6
ATOM	19053	C	ALA	M1319	81.334	116.620	65.924	1.00	39.49	6
ATOM	19054	O	ALA	M1319	82.388	116.585	65.286	1.00	40.10	8
ATOM	19055	N	VAL	M1320	80.152	116.375	65.376	1.00	72.64	7
ATOM	19056	CA	VAL	M1320	79.943	116.064	63.969	1.00	73.01	6
ATOM	19057	CB	VAL	M1320	80.241	114.586	63.668	1.00	176.14	6
ATOM	19058	CG1	VAL	M1320	79.897	114.278	62.230	1.00	177.46	6
ATOM	19059	CG2	VAL	M1320	81.698	114.272	63.937	1.00	176.43	6
ATOM	19060	C	VAL	M1320	78.453	116.292	63.835	1.00	73.15	6
ATOM	19061	O	VAL	M1320	77.924	116.579	62.760	1.00	73.64	8
ATOM	19062	N	GLU	M1321	77.807	116.155	64.988	1.00	192.66	7
ATOM	19063	CA	GLU	M1321	76.376	116.322	65.163	1.00	194.77	6
ATOM	19064	CB	GLU	M1321	76.109	117.580	65.992	1.00	100.58	6
ATOM	19065	CG	GLU	M1321	74.649	117.868	66.240	1.00	101.19	6
ATOM	19066	CD	GLU	M1321	74.443	119.152	67.008	1.00	101.43	6
ATOM	19067	OE1	GLU	M1321	74.859	119.214	68.182	1.00	101.02	8
ATOM	19068	OE2	GLU	M1321	73.877	120.102	66.430	1.00	102.32	8
ATOM	19069	C	GLU	M1321	75.615	116.392	63.856	1.00	195.66	6
ATOM	19070	O	GLU	M1321	75.049	115.402	63.401	1.00	196.90	8
ATOM	19071	N	ALA	M1322	75.626	117.565	63.242	1.00	36.01	7
ATOM	19072	CA	ALA	M1322	74.913	117.764	62.007	1.00	36.83	6
ATOM	19073	CB	ALA	M1322	73.446	117.750	62.283	1.00	39.61	6
ATOM	19074	C	ALA	M1322	75.285	119.078	61.351	1.00	38.19	6
ATOM	19075	O	ALA	M1322	74.402	119.804	60.907	1.00	39.21	8
ATOM	19076	N	GLY	M1323	76.585	119.381	61.305	1.00	123.19	7
ATOM	19077	CA	GLY	M1323	77.096	120.608	60.696	1.00	125.25	6
ATOM	19078	C	GLY	M1323	76.300	121.877	60.944	1.00	126.30	6
ATOM	19079	O	GLY	M1323	76.862	122.955	61.137	1.00	127.31	8
ATOM	19080	N	GLN	M1324	74.985	121.712	60.909	1.00	59.99	7
ATOM	19081	CA	GLN	M1324	73.968	122.720	61.112	1.00	61.95	6
ATOM	19082	CB	GLN	M1324	74.544	123.989	61.749	1.00	179.79	6
ATOM	19083	CG	GLN	M1324	74.458	123.966	63.279	1.00	180.04	6
ATOM	19084	CD	GLN	M1324	73.139	123.376	63.777	1.00	179.63	6
ATOM	19085	OE1	GLN	M1324	72.059	123.771	63.334	1.00	180.03	8
ATOM	19086	NE2	GLN	M1324	73.226	122.427	64.704	1.00	178.64	7
ATOM	19087	C	GLN	M1324	73.114	123.068	59.888	1.00	62.73	6

ATOM	19088	O	GLN	M1324	72.434	124.092	59.869	1.00	63.05	8
ATOM	19089	N	PRO	M1325	73.149	122.232	58.839	1.00	82.54	7
ATOM	19090	CD	PRO	M1325	74.250	121.338	58.436	1.00	101.31	6
ATOM	19091	CA	PRO	M1325	72.321	122.552	57.677	1.00	82.86	6
ATOM	19092	CB	PRO	M1325	73.278	122.346	56.527	1.00	101.32	6
ATOM	19093	CG	PRO	M1325	73.967	121.108	56.961	1.00	101.85	6
ATOM	19094	C	PRO	M1325	71.215	121.517	57.676	1.00	83.19	6
ATOM	19095	O	PRO	M1325	70.057	121.811	57.426	1.00	83.28	8
ATOM	19096	N	ALA	M1326	71.622	120.295	57.985	1.00	100.14	7
ATOM	19097	CA	ALA	M1326	70.770	119.123	58.043	1.00	101.85	6
ATOM	19098	CB	ALA	M1326	70.983	118.401	59.362	1.00	128.51	6
ATOM	19099	C	ALA	M1326	69.292	119.303	57.812	1.00	103.03	6
ATOM	19100	O	ALA	M1326	68.629	120.120	58.448	1.00	103.18	8
ATOM	19101	N	ALA	M1327	68.785	118.521	56.876	1.00	208.87	7
ATOM	19102	CA	ALA	M1327	67.372	118.511	56.577	1.00	208.87	6
ATOM	19103	CB	ALA	M1327	67.147	118.647	55.083	1.00	151.94	6
ATOM	19104	C	ALA	M1327	67.030	117.106	57.057	1.00	208.87	6
ATOM	19105	O	ALA	M1327	65.944	116.578	56.801	1.00	208.87	8
ATOM	19106	N	ARG	M1328	68.004	116.534	57.770	1.00	208.87	7
ATOM	19107	CA	ARG	M1328	67.966	115.193	58.344	1.00	208.87	6
ATOM	19108	CB	ARG	M1328	66.517	114.775	58.675	1.00	206.75	6
ATOM	19109	CG	ARG	M1328	65.971	113.606	57.868	1.00	207.80	6
ATOM	19110	CD	ARG	M1328	64.507	113.333	58.169	1.00	208.71	6
ATOM	19111	NE	ARG	M1328	63.624	114.335	57.579	1.00	208.87	7
ATOM	19112	CZ	ARG	M1328	63.399	115.539	58.093	1.00	208.87	6
ATOM	19113	NH1	ARG	M1328	63.991	115.908	59.221	1.00	208.87	7
ATOM	19114	NH2	ARG	M1328	62.577	116.378	57.477	1.00	208.87	7
ATOM	19115	C	ARG	M1328	68.634	114.196	57.390	1.00	208.87	6
ATOM	19116	O	ARG	M1328	68.627	112.988	57.633	1.00	208.87	8
ATOM	19117	N	GLY	M1329	69.233	114.707	56.314	1.00	71.92	7
ATOM	19118	CA	GLY	M1329	69.879	113.821	55.362	1.00	69.86	6
ATOM	19119	C	GLY	M1329	71.369	113.721	55.597	1.00	68.76	6
ATOM	19120	O	GLY	M1329	72.151	114.215	54.790	1.00	69.45	8
ATOM	19121	N	ALA	M1330	71.753	113.067	56.694	1.00	68.05	7
ATOM	19122	CA	ALA	M1330	73.160	112.908	57.082	1.00	66.72	6
ATOM	19123	CB	ALA	M1330	73.332	111.658	57.938	1.00	112.89	6
ATOM	19124	C	ALA	M1330	74.121	112.875	55.903	1.00	65.68	6
ATOM	19125	O	ALA	M1330	74.193	111.891	55.169	1.00	65.37	8
ATOM	19126	N	ALA	M1331	74.856	113.972	55.738	1.00	149.64	7
ATOM	19127	CA	ALA	M1331	75.817	114.115	54.652	1.00	149.47	6
ATOM	19128	CB	ALA	M1331	76.919	115.112	55.043	1.00</		

ATOM	19144	CA	HIS	M1334	81.394	108.635	53.655	1.00	81.28	6
ATOM	19145	CB	HIS	M1334	81.758	108.784	52.181	1.00	94.91	6
ATOM	19146	CG	HIS	M1334	81.530	107.546	51.378	1.00	95.11	6
ATOM	19147	CD2	HIS	M1334	80.781	107.325	50.274	1.00	95.05	6
ATOM	19148	ND1	HIS	M1334	82.127	106.342	51.686	1.00	96.14	7
ATOM	19149	CE1	HIS	M1334	81.754	105.432	50.804	1.00	96.08	6
ATOM	19150	NE2	HIS	M1334	80.937	106.002	49.937	1.00	96.06	7
ATOM	19151	C	HIS	M1334	82.092	109.728	54.450	1.00	79.10	6
ATOM	19152	O	HIS	M1334	83.249	109.584	54.847	1.00	78.74	8
ATOM	19153	N	GLN	M1335	81.368	110.825	54.655	1.00	78.96	7
ATOM	19154	CA	GLN	M1335	81.843	111.978	55.409	1.00	77.07	6
ATOM	19155	CB	GLN	M1335	80.930	113.184	55.168	1.00	62.73	6
ATOM	19156	CG	GLN	M1335	81.140	114.005	53.909	1.00	63.05	6
ATOM	19157	CD	GLN	M1335	79.928	114.880	53.622	1.00	63.16	6
ATOM	19158	OE1	GLN	M1335	78.992	114.451	52.948	1.00	62.30	8
ATOM	19159	NE2	GLN	M1335	79.924	116.097	54.162	1.00	65.06	7
ATOM	19160	C	GLN	M1335	81.796	111.640	56.899	1.00	76.06	6
ATOM	19161	O	GLN	M1335	82.764	111.854	57.638	1.00	77.25	8
ATOM	19162	N	LEU	M1336	80.648	111.136	57.341	1.00	51.91	7
ATOM	19163	CA	LEU	M1336	80.486	110.773	58.730	1.00	48.96	6
ATOM	19164	CB	LEU	M1336	79.127	110.166	58.951	1.00	14.76	6
ATOM	19165	CG	LEU	M1336	79.055	109.563	60.345	1.00	13.94	6
ATOM	19166	CD1	LEU	M1336	78.413	110.569	61.307	1.00	13.87	6
ATOM	19167	CD2	LEU	M1336	78.275	108.255	60.283	1.00	14.47	6
ATOM	19168	C	LEU	M1336	81.560	109.765	59.109	1.00	48.58	6
ATOM	19169	O	LEU	M1336	82.291	109.967	60.079	1.00	49.17	8
ATOM	19170	N	LEU	M1337	81.652	108.673	58.355	1.00	42.86	7
ATOM	19171	CA	LEU	M1337	82.684	107.685	58.626	1.00	42.77	6
ATOM	19172	CB	LEU	M1337	82.784	106.660	57.492	1.00	34.32	6
ATOM	19173	CG	LEU	M1337	84.063	105.802	57.441	1.00	32.83	6
ATOM	19174	CD1	LEU	M1337	84.467	105.328	58.819	1.00	32.74	6
ATOM	19175	CD2	LEU	M1337	83.841	104.608	56.540	1.00	31.78	6
ATOM	19176	C	LEU	M1337	84.003	108.428	58.746	1.00	43.69	6
ATOM	19177	O	LEU	M1337	84.677	108.340	59.770	1.00	44.59	8
ATOM	19178	N	GLU	M1338	84.353	109.177	57.698	1.00	55.65	7
ATOM	19179	CA	GLU	M1338	85.604	109.939	57.664	1.00	57.05	6
ATOM	19180	CB	GLU	M1338	85.593	110.974	56.539	1.00	130.02	6
ATOM	19181	CG	GLU	M1338	86.906	111.736	56.419	1.00	134.03	6
ATOM	19182	CD	GLU	M1338	88.096	110.812	56.188	1.00	135.60	6
ATOM	19183	OE1	GLU	M1338	88.174	110.196	55.102	1.00	135.05	8
ATOM	19184	OE2	GLU	M1338	88.950	110.69				

ATOM	19200	O	LYS	M1340	83.144	107.176	64.105	1.00	19.94	8
ATOM	19201	N	GLY	M1341	84.391	107.483	62.267	1.00	53.79	7
ATOM	19202	CA	GLY	M1341	84.667	106.063	62.094	1.00	54.10	6
ATOM	19203	C	GLY	M1341	83.566	105.182	61.526	1.00	53.76	6
ATOM	19204	O	GLY	M1341	82.575	105.680	60.999	1.00	54.84	8
ATOM	19205	N	PRO	M1342	83.742	103.852	61.577	1.00	39.93	7
ATOM	19206	CD	PRO	M1342	85.023	103.183	61.858	1.00	71.77	6
ATOM	19207	CA	PRO	M1342	82.769	102.878	61.077	1.00	39.54	6
ATOM	19208	CB	PRO	M1342	83.639	101.681	60.744	1.00	71.12	6
ATOM	19209	CG	PRO	M1342	84.627	101.720	61.845	1.00	71.46	6
ATOM	19210	C	PRO	M1342	81.763	102.542	62.164	1.00	39.38	6
ATOM	19211	O	PRO	M1342	80.649	102.098	61.888	1.00	39.75	8
ATOM	19212	N	GLU	M1343	82.180	102.742	63.407	1.00	110.36	7
ATOM	19213	CA	GLU	M1343	81.324	102.472	64.548	1.00	111.07	6
ATOM	19214	CB	GLU	M1343	82.000	102.939	65.843	1.00	116.77	6
ATOM	19215	CG	GLU	M1343	83.474	102.565	65.949	1.00	120.21	6
ATOM	19216	CD	GLU	M1343	84.384	103.577	65.271	1.00	122.14	6
ATOM	19217	OE1	GLU	M1343	83.996	104.110	64.212	1.00	123.85	8
ATOM	19218	OE2	GLU	M1343	85.490	103.837	65.792	1.00	122.14	8
ATOM	19219	C	GLU	M1343	80.026	103.239	64.332	1.00	110.60	6
ATOM	19220	O	GLU	M1343	78.933	102.675	64.414	1.00	111.23	8
ATOM	19221	N	ALA	M1344	80.159	104.530	64.042	1.00	60.41	7
ATOM	19222	CA	ALA	M1344	79.005	105.384	63.810	1.00	56.94	6
ATOM	19223	CB	ALA	M1344	79.449	106.816	63.604	1.00	110.71	6
ATOM	19224	C	ALA	M1344	78.283	104.887	62.584	1.00	54.06	6
ATOM	19225	O	ALA	M1344	77.228	104.275	62.677	1.00	54.80	8
ATOM	19226	N	VAL	M1345	78.871	105.151	61.432	1.00	39.51	7
ATOM	19227	CA	VAL	M1345	78.291	104.730	60.175	1.00	37.26	6
ATOM	19228	CB	VAL	M1345	79.381	104.502	59.133	1.00	51.64	6
ATOM	19229	CG1	VAL	M1345	78.787	103.817	57.890	1.00	50.18	6
ATOM	19230	CG2	VAL	M1345	80.011	105.846	58.772	1.00	52.02	6
ATOM	19231	C	VAL	M1345	77.426	103.473	60.267	1.00	35.69	6
ATOM	19232	O	VAL	M1345	76.256	103.496	59.885	1.00	36.80	8
ATOM	19233	N	GLU	M1346	77.993	102.374	60.753	1.00	24.68	7
ATOM	19234	CA	GLU	M1346	77.208	101.159	60.871	1.00	21.54	6
ATOM	19235	CB	GLU	M1346	77.924	100.115	61.717	1.00	55.67	6
ATOM	19236	CG	GLU	M1346	79.060	99.391	61.060	1.00	59.34	6
ATOM	19237	CD	GLU	M1346	79.650	98.355	61.992	1.00	61.81	6
ATOM	19238	OE1	GLU	M1346	78.917	97.422	62.386	1.00	62.82	8
ATOM	19239	OE2	GLU	M1346	80.842	98.482	62.344	1.00	62.58	8
ATOM	19240	C	GLU	M1346	75.917	101.517	61.574	1.00	17.78	6
ATOM	19241	O	GLU	M1346	74.839	101.532	60.972	1.00	15.48	8
ATOM	19242	N	ARG	M1347	76.046	101.824	62.858	1.00	13.87	7
ATOM	19243	CA	ARG	M1347	74.891	102.148	63.655	1.00	13.87	6
ATOM	19244	CB	ARG	M1347	75.305	102.444	65.095	1.00	78.35	6
ATOM	19245	CG	ARG	M1347	74.182	102.202	66.105	1.00	84.10	6
ATOM	19246	CD	ARG	M1347	73.758	100.732	66.154	1.00	87.61	6
ATOM	19247	NE	ARG	M1347	72.398	100.580	66.668	1.00	89.27	7
ATOM	19248	CZ	ARG	M1347	71.451	99.858	66.072	1.00	90.63	6
ATOM	19249	NH1	ARG	M1347	71.717	99.214	64.943	1.00	88.28	7
ATOM	19250	NH2	ARG	M1347	70.228	99.800	66.588	1.00	92.19	7
ATOM	19251	C	ARG	M1347	74.113	103.308	63.057	1.00	13.87	6
ATOM	19252	O	ARG	M1347	72.986	103.564	63.463	1.00	13.87	8
ATOM	19253	N	TYR	M1348	74.698	104.020	62.096	1.00	22.17	7
ATOM	19254	CA	TYR	M1348	73.956	105.106	61.477	1.00	20.27	6
ATOM	19255	CB	TYR	M1348	74.811	106.233	60.919	1.00	20.01	6

ATOM	19256	CG	TYR	M1348	73.909	107.186	60.163	1.00	18.85	6
ATOM	19257	CD1	TYR	M1348	72.764	107.686	60.764	1.00	19.10	6
ATOM	19258	CE1	TYR	M1348	71.867	108.462	60.084	1.00	18.16	6
ATOM	19259	CD2	TYR	M1348	74.128	107.504	58.842	1.00	19.50	6
ATOM	19260	CE2	TYR	M1348	73.218	108.295	58.141	1.00	19.53	6
ATOM	19261	CZ	TYR	M1348	72.093	108.767	58.785	1.00	19.20	6
ATOM	19262	OH	TYR	M1348	71.191	109.582	58.156	1.00	22.06	8
ATOM	19263	C	TYR	M1348	73.203	104.562	60.311	1.00	21.43	6
ATOM	19264	O	TYR	M1348	72.127	105.049	59.986	1.00	21.47	8
ATOM	19265	N	LEU	M1349	73.799	103.576	59.652	1.00	67.99	7
ATOM	19266	CA	LEU	M1349	73.186	102.943	58.498	1.00	69.05	6
ATOM	19267	CB	LEU	M1349	74.197	102.011	57.813	1.00	27.21	6
ATOM	19268	CG	LEU	M1349	74.654	102.470	56.428	1.00	24.57	6
ATOM	19269	CD1	LEU	M1349	74.591	103.979	56.348	1.00	23.50	6
ATOM	19270	CD2	LEU	M1349	76.052	101.971	56.147	1.00	23.96	6
ATOM	19271	C	LEU	M1349	71.967	102.170	58.964	1.00	70.22	6
ATOM	19272	O	LEU	M1349	70.888	102.291	58.386	1.00	71.16	8
ATOM	19273	N	VAL	M1350	72.139	101.396	60.029	1.00	38.88	7
ATOM	19274	CA	VAL	M1350	71.038	100.613	60.556	1.00	39.64	6
ATOM	19275	CB	VAL	M1350	71.478	99.755	61.752	1.00	82.77	6
ATOM	19276	CG1	VAL	M1350	70.286	99.038	62.333	1.00	82.95	6
ATOM	19277	CG2	VAL	M1350	72.527	98.749	61.312	1.00	84.45	6
ATOM	19278	C	VAL	M1350	69.887	101.509	60.993	1.00	39.38	6
ATOM	19279	O	VAL	M1350	68.855	101.580	60.327	1.00	39.26	8
ATOM	19280	N	ASP	M1351	70.064	102.205	62.108	1.00	32.57	7
ATOM	19281	CA	ASP	M1351	69.002	103.055	62.606	1.00	33.77	6
ATOM	19282	CB	ASP	M1351	69.514	104.009	63.693	1.00	53.66	6
ATOM	19283	CG	ASP	M1351	69.545	103.363	65.083	1.00	55.50	6
ATOM	19284	OD1	ASP	M1351	68.500	102.857	65.543	1.00	55.66	8
ATOM	19285	OD2	ASP	M1351	70.616	103.367	65.725	1.00	57.05	8
ATOM	19286	C	ASP	M1351	68.359	103.837	61.479	1.00	33.69	6
ATOM	19287	O	ASP	M1351	67.153	103.756	61.281	1.00	33.24	8
ATOM	19288	N	GLU	M1352	69.165	104.554	60.709	1.00	31.50	7
ATOM	19289	CA	GLU	M1352	68.637	105.378	59.632	1.00	32.99	6
ATOM	19290	CB	GLU	M1352	69.776	106.138	58.959	1.00	45.71	6
ATOM	19291	CG	GLU	M1352	69.323	107.291	58.087	1.00	47.39	6
ATOM	19292	CD	GLU	M1352	68.407	108.257	58.815	1.00	47.45	6
ATOM	19293	OE1	GLU	M1352	67.176	108.043	58.776	1.00	46.97	8
ATOM	19294	OE2	GLU	M1352	68.922	109.219	59.427	1.00	47.46	8
ATOM	19295	C	GLU	M1352	67.800	104.647	58.583	1.00	34.27	6
ATOM	19296	O	GLU	M1352	66.940	105.260	57.939	1.00	34.81	8
ATOM	19297	N	ILE	M1353	68.034	103.351	58.399	1.00	46.14	7
ATOM	19298	CA	ILE	M1353	67.248	102.606	57.418	1.00	45.23	6
ATOM	19299	CB	ILE	M1353	67.895	101.275	57.061	1.00	13.96	6
ATOM	19300	CG2	ILE	M1353	66.917	100.436	56.253	1.00	13.87	6
ATOM	19301	CG1	ILE	M1353	69.203	101.526	56.304	1.00	13.87	6
ATOM	19302	CD1	ILE	M1353	69.996	100.277	56.008	1.00	13.87	6
ATOM	19303	C	ILE	M1353	65.855	102.328	57.958	1.00	46.27	6
ATOM	19304	O	ILE	M1353	64.856	102.645	57.310	1.00	46.46	8
ATOM	19305	N	GLN	M1354	65.796	101.724	59.143	1.00	34.00	7
ATOM	19306	CA	GLN	M1354	64.521	101.426	59.785	1.00	33.64	6
ATOM	19307	CB	GLN	M1354	64.715	101.244	61.294	1.00	20.04	6
ATOM	19308	CG	GLN	M1354	65.309	99.902	61.696	1.00	16.27	6
ATOM	19309	CD	GLN	M1354	64.316	98.774	61.570	1.00	13.87	6
ATOM	19310	OE1	GLN	M1354	63.361	98.689	62.325	1.00	13.87	8
ATOM	19311	NE2	GLN	M1354	64.533	97.909	60.605	1.00	14.26	7

ATOM	19312	C	GLN	M1354	63.569	102.586	59.525	1.00	34.96	6
ATOM	19313	O	GLN	M1354	62.573	102.430	58.821	1.00	34.64	8
ATOM	19314	N	LYS	M1355	63.912	103.751	60.070	1.00	49.00	7
ATOM	19315	CA	LYS	M1355	63.110	104.961	59.930	1.00	50.54	6
ATOM	19316	CB	LYS	M1355	64.015	106.187	59.779	1.00	144.26	6
ATOM	19317	CG	LYS	M1355	64.802	106.526	61.035	1.00	148.98	6
ATOM	19318	CD	LYS	M1355	65.414	107.917	60.955	1.00	151.56	6
ATOM	19319	CE	LYS	M1355	66.185	108.261	62.222	1.00	152.92	6
ATOM	19320	NZ	LYS	M1355	66.770	109.630	62.165	1.00	153.96	7
ATOM	19321	C	LYS	M1355	62.110	104.926	58.787	1.00	49.98	6
ATOM	19322	O	LYS	M1355	60.924	105.181	59.003	1.00	50.04	8
ATOM	19323	N	VAL	M1356	62.578	104.601	57.579	1.00	36.25	7
ATOM	19324	CA	VAL	M1356	61.696	104.557	56.411	1.00	35.59	6
ATOM	19325	CB	VAL	M1356	62.459	104.280	55.111	1.00	99.73	6
ATOM	19326	CG1	VAL	M1356	61.496	104.309	53.940	1.00	100.72	6
ATOM	19327	CG2	VAL	M1356	63.540	105.328	54.913	1.00	101.97	6
ATOM	19328	C	VAL	M1356	60.666	103.478	56.609	1.00	34.12	6
ATOM	19329	O	VAL	M1356	59.469	103.711	56.450	1.00	33.45	8
ATOM	19330	N	TYR	M1357	61.124	102.285	56.944	1.00	26.83	7
ATOM	19331	CA	TYR	M1357	60.176	101.229	57.196	1.00	27.60	6
ATOM	19332	CB	TYR	M1357	60.897	99.928	57.519	1.00	32.03	6
ATOM	19333	CG	TYR	M1357	61.531	99.257	56.323	1.00	29.83	6
ATOM	19334	CD1	TYR	M1357	62.316	98.125	56.483	1.00	29.38	6
ATOM	19335	CE1	TYR	M1357	62.900	97.498	55.406	1.00	28.03	6
ATOM	19336	CD2	TYR	M1357	61.344	99.743	55.036	1.00	29.13	6
ATOM	19337	CE2	TYR	M1357	61.922	99.117	53.953	1.00	28.27	6
ATOM	19338	CZ	TYR	M1357	62.699	97.999	54.151	1.00	28.10	6
ATOM	19339	OH	TYR	M1357	63.306	97.385	53.099	1.00	29.37	8
ATOM	19340	C	TYR	M1357	59.345	101.689	58.386	1.00	29.83	6
ATOM	19341	O	TYR	M1357	58.179	102.027	58.233	1.00	30.32	8
ATOM	19342	N	ARG	M1358	59.964	101.727	59.564	1.00	41.68	7
ATOM	19343	CA	ARG	M1358	59.296	102.137	60.800	1.00	43.86	6
ATOM	19344	CB	ARG	M1358	60.318	102.690	61.801	1.00	40.55	6
ATOM	19345	CG	ARG	M1358	61.171	101.636	62.467	1.00	39.36	6
ATOM	19346	CD	ARG	M1358	62.310	102.230	63.260	1.00	37.99	6
ATOM	19347	NE	ARG	M1358	63.033	101.172	63.954	1.00	39.09	7
ATOM	19348	CZ	ARG	M1358	64.135	101.356	64.673	1.00	39.01	6
ATOM	19349	NH1	ARG	M1358	64.657	102.571	64.790	1.00	39.99	7
ATOM	19350	NH2	ARG	M1358	64.702	100.327	65.295	1.00	38.71	7
ATOM	19351	C	ARG	M1358	58.206	103.172	60.601	1.00	45.79	6
ATOM	19352	O	ARG	M1358	57.147	103.086	61.218	1.00	45.87	8
ATOM	19353	N	ALA	M1359	58.474	104.148	59.737	1.00	43.17	7
ATOM	19354	CA	ALA	M1359	57.529	105.229	59.467	1.00	46.65	6
ATOM	19355	CB	ALA	M1359	58.255	106.379	58.771	1.00	42.33	6
ATOM	19356	C	ALA	M1359	56.296	104.809	58.656	1.00	49.24	6
ATOM	19357	O	ALA	M1359	55.216	105.388	58.805	1.00	50.25	8
ATOM	19358	N	GLN	M1360	56.448	103.810	57.799	1.00	55.01	7
ATOM	19359	CA	GLN	M1360	55.319	103.356	57.011	1.00	57.94	6
ATOM	19360	CB	GLN	M1360	55.747	103.119	55.563	1.00	95.02	6
ATOM	19361	CG	GLN	M1360	56.124	104.410	54.853	1.00	98.34	6
ATOM	19362	CD	GLN	M1360	56.316	104.232	53.361	1.00	101.35	6
ATOM	19363	OE1	GLN	M1360	57.251	103.570	52.917	1.00	103.64	8
ATOM	19364	NE2	GLN	M1360	55.424	104.824	52.577	1.00	103.29	7
ATOM	19365	C	GLN	M1360	54.680	102.111	57.609	1.00	59.58	6
ATOM	19366	O	GLN	M1360	53.803	101.505	57.002	1.00	61.56	8
ATOM	19367	N	GLY	M1361	55.127	101.726	58.800	1.00	66.39	7



ATOM	19368	CA	GLY	M1361	54.538	100.577	59.464	1.00	67.72	6
ATOM	19369	C	GLY	M1361	55.245	99.237	59.501	1.00	69.35	6
ATOM	19370	O	GLY	M1361	54.779	98.345	60.197	1.00	71.07	8
ATOM	19371	N	VAL	M1362	56.349	99.072	58.779	1.00	69.68	7
ATOM	19372	CA	VAL	M1362	57.067	97.791	58.770	1.00	70.93	6
ATOM	19373	CB	VAL	M1362	58.148	97.778	57.682	1.00	114.35	6
ATOM	19374	CG1	VAL	M1362	58.787	96.412	57.620	1.00	115.83	6
ATOM	19375	CG2	VAL	M1362	57.540	98.151	56.338	1.00	114.45	6
ATOM	19376	C	VAL	M1362	57.729	97.500	60.120	1.00	71.13	6
ATOM	19377	O	VAL	M1362	58.354	98.382	60.702	1.00	72.34	8
ATOM	19378	N	LYS	M1363	57.629	96.268	60.616	1.00	60.31	7
ATOM	19379	CA	LYS	M1363	58.216	95.991	61.916	1.00	60.45	6
ATOM	19380	CB	LYS	M1363	57.134	95.531	62.895	1.00	113.54	6
ATOM	19381	CG	LYS	M1363	56.250	96.656	63.402	1.00	115.84	6
ATOM	19382	CD	LYS	M1363	55.180	96.153	64.365	1.00	117.22	6
ATOM	19383	CE	LYS	M1363	54.220	97.276	64.757	1.00	118.04	6
ATOM	19384	NZ	LYS	M1363	53.114	96.819	65.645	1.00	117.65	7
ATOM	19385	C	LYS	M1363	59.399	95.054	62.022	1.00	60.10	6
ATOM	19386	O	LYS	M1363	59.597	94.451	63.066	1.00	61.32	8
ATOM	19387	N	LEU	M1364	60.202	94.924	60.976	1.00	58.42	7
ATOM	19388	CA	LEU	M1364	61.378	94.057	61.074	1.00	57.25	6
ATOM	19389	CB	LEU	M1364	61.870	93.636	59.693	1.00	14.01	6
ATOM	19390	CG	LEU	M1364	62.815	94.619	59.001	1.00	13.87	6
ATOM	19391	CD1	LEU	M1364	63.224	94.088	57.667	1.00	13.87	6
ATOM	19392	CD2	LEU	M1364	62.144	95.938	58.821	1.00	15.32	6
ATOM	19393	C	LEU	M1364	62.480	94.871	61.734	1.00	57.05	6
ATOM	19394	O	LEU	M1364	62.358	96.086	61.864	1.00	57.32	8
ATOM	19395	N	HIS	M1365	63.555	94.202	62.125	1.00	55.51	7
ATOM	19396	CA	HIS	M1365	64.735	94.821	62.745	1.00	54.85	6
ATOM	19397	CB	HIS	M1365	64.404	96.051	63.621	1.00	89.31	6
ATOM	19398	CG	HIS	M1365	65.613	96.742	64.213	1.00	89.88	6
ATOM	19399	CD2	HIS	M1365	66.166	96.673	65.450	1.00	89.57	6
ATOM	19400	ND1	HIS	M1365	66.375	97.652	63.512	1.00	90.33	7
ATOM	19401	CE1	HIS	M1365	67.340	98.115	64.291	1.00	89.09	6
ATOM	19402	NE2	HIS	M1365	67.236	97.536	65.472	1.00	87.92	7
ATOM	19403	C	HIS	M1365	65.263	93.741	63.630	1.00	52.35	6
ATOM	19404	O	HIS	M1365	64.797	92.603	63.566	1.00	51.80	8
ATOM	19405	N	ASP	M1366	66.212	94.103	64.479	1.00	143.74	7
ATOM	19406	CA	ASP	M1366	66.802	93.147	65.376	1.00	140.35	6
ATOM	19407	CB	ASP	M1366	65.725	92.329	66.072	1.00	69.65	6
ATOM	19408	CG	ASP	M1366	66.301	91.249	66.911	1.00	72.16	6
ATOM	19409	OD1	ASP	M1366	66.912	91.583	67.940	1.00	73.07	8
ATOM	19410	OD2	ASP	M1366	66.162	90.072	66.534	1.00	73.84	8
ATOM	19411	C	ASP	M1366	67.627	92.243	64.495	1.00	137.18	6
ATOM	19412	O	ASP	M1366	67.154	91.191	64.062	1.00	138.07	8
ATOM	19413	N	LYS	M1367	68.853	92.678	64.220	1.00	72.57	7
ATOM	19414	CA	LYS	M1367	69.788	91.933	63.391	1.00	65.51	6
ATOM	19415	CB	LYS	M1367	69.583	90.433	63.611	1.00	31.25	6
ATOM	19416	CG	LYS	M1367	69.563	90.075	65.106	1.00	29.48	6
ATOM	19417	CD	LYS	M1367	69.400	88.595	65.400	1.00	28.92	6
ATOM	19418	CE	LYS	M1367	68.009	88.104	65.102	1.00	30.10	6
ATOM	19419	NZ	LYS	M1367	67.901	86.644	65.347	1.00	32.28	7
ATOM	19420	C	LYS	M1367	69.524	92.342	61.955	1.00	61.88	6
ATOM	19421	O	LYS	M1367	69.633	93.519	61.626	1.00	62.01	8
ATOM	19422	N	HIS	M1368	69.155	91.385	61.117	1.00	60.17	7
ATOM	19423	CA	HIS	M1368	68.869	91.643	59.713	1.00	56.41	6

ATOM	19424	CB	HIS	M1368	67.349	91.771	59.515	1.00	23.36	6
ATOM	19425	CG	HIS	M1368	66.606	90.516	59.873	1.00	19.79	6
ATOM	19426	CD2	HIS	M1368	65.455	90.316	60.561	1.00	18.16	6
ATOM	19427	ND1	HIS	M1368	67.075	89.257	59.550	1.00	20.87	7
ATOM	19428	CE1	HIS	M1368	66.249	88.338	60.026	1.00	18.52	6
ATOM	19429	NE2	HIS	M1368	65.256	88.953	60.644	1.00	18.09	7
ATOM	19430	C	HIS	M1368	69.647	92.819	59.096	1.00	55.03	6
ATOM	19431	O	HIS	M1368	70.727	92.587	58.546	1.00	57.26	8
ATOM	19432	N	ILE	M1369	69.150	94.059	59.182	1.00	25.30	7
ATOM	19433	CA	ILE	M1369	69.879	95.200	58.593	1.00	22.61	6
ATOM	19434	CB	ILE	M1369	69.307	96.586	58.992	1.00	14.91	6
ATOM	19435	CG2	ILE	M1369	69.693	97.601	57.943	1.00	15.38	6
ATOM	19436	CG1	ILE	M1369	67.786	96.584	58.998	1.00	13.87	6
ATOM	19437	CD1	ILE	M1369	67.189	97.959	59.235	1.00	13.87	6
ATOM	19438	C	ILE	M1369	71.342	95.203	59.022	1.00	22.50	6
ATOM	19439	O	ILE	M1369	72.222	95.502	58.223	1.00	22.96	8
ATOM	19440	N	GLU	M1370	71.598	94.868	60.285	1.00	26.82	7
ATOM	19441	CA	GLU	M1370	72.961	94.833	60.803	1.00	25.65	6
ATOM	19442	CB	GLU	M1370	72.955	94.549	62.318	1.00	26.07	6
ATOM	19443	CG	GLU	M1370	71.953	95.450	63.083	1.00	28.74	6
ATOM	19444	CD	GLU	M1370	72.238	95.651	64.585	1.00	29.30	6
ATOM	19445	OE1	GLU	M1370	72.470	94.660	65.307	1.00	26.57	8
ATOM	19446	OE2	GLU	M1370	72.200	96.816	65.053	1.00	30.31	8
ATOM	19447	C	GLU	M1370	73.772	93.798	60.022	1.00	24.37	6
ATOM	19448	O	GLU	M1370	74.768	94.158	59.407	1.00	24.40	8
ATOM	19449	N	ILE	M1371	73.335	92.535	60.006	1.00	42.55	7
ATOM	19450	CA	ILE	M1371	74.042	91.474	59.265	1.00	41.87	6
ATOM	19451	CB	ILE	M1371	73.136	90.282	58.880	1.00	13.87	6
ATOM	19452	CG2	ILE	M1371	73.840	89.427	57.853	1.00	13.87	6
ATOM	19453	CG1	ILE	M1371	72.811	89.410	60.089	1.00	13.87	6
ATOM	19454	CD1	ILE	M1371	73.925	88.502	60.511	1.00	13.87	6
ATOM	19455	C	ILE	M1371	74.532	92.007	57.940	1.00	41.53	6
ATOM	19456	O	ILE	M1371	75.683	91.813	57.555	1.00	42.75	8
ATOM	19457	N	VAL	M1372	73.621	92.661	57.238	1.00	19.01	7
ATOM	19458	CA	VAL	M1372	73.908	93.217	55.938	1.00	19.49	6
ATOM	19459	CB	VAL	M1372	72.619	93.685	55.264	1.00	29.25	6
ATOM	19460	CG1	VAL	M1372	72.874	94.034	53.819	1.00	28.47	6
ATOM	19461	CG2	VAL	M1372	71.584	92.612	55.370	1.00	29.34	6
ATOM	19462	C	VAL	M1372	74.878	94.383	55.986	1.00	20.74	6
ATOM	19463	O	VAL	M1372	75.778	94.471	55.142	1.00	20.78	8
ATOM	19464	N	VAL	M1373	74.697	95.276	56.963	1.00	38.65	7
ATOM	19465	CA	VAL	M1373	75.547	96.465	57.100	1.00	40.85	6
ATOM	19466	CB	VAL	M1373	75.062	97.377	58.264	1.00	30.59	6
ATOM	19467	CG1	VAL	M1373	76.175	97.603	59.275	1.00	29.63	6
ATOM	19468	CG2	VAL	M1373	74.583	98.711	57.707	1.00	29.59	6
ATOM	19469	C	VAL	M1373	77.003	96.086	57.300	1.00	43.04	6
ATOM	19470	O	VAL	M1373	77.899	96.667	56.690	1.00	43.66	8
ATOM	19471	N	ARG	M1374	77.234	95.109	58.160	1.00	29.36	7
ATOM	19472	CA	ARG	M1374	78.578	94.638	58.406	1.00	32.53	6
ATOM	19473	CB	ARG	M1374	78.532	93.364	59.232	1.00	41.74	6
ATOM	19474	CG	ARG	M1374	79.839	92.628	59.294	1.00	42.39	6
ATOM	19475	CD	ARG	M1374	79.582	91.149	59.467	1.00	41.99	6
ATOM	19476	NE	ARG	M1374	80.068	90.645	60.747	1.00	40.86	7
ATOM	19477	CZ	ARG	M1374	79.927	89.384	61.142	1.00	41.20	6
ATOM	19478	NH1	ARG	M1374	79.313	88.497	60.359	1.00	38.94	7
ATOM	19479	NH2	ARG	M1374	80.402	89.006	62.318	1.00	42.04	7

ATOM	19480	C	ARG	M1374	79.251	94.346	57.069	1.00	33.82	6
ATOM	19481	O	ARG	M1374	80.393	94.722	56.854	1.00	35.00	8
ATOM	19482	N	GLN	M1375	78.535	93.677	56.171	1.00	26.64	7
ATOM	19483	CA	GLN	M1375	79.068	93.325	54.859	1.00	27.87	6
ATOM	19484	CB	GLN	M1375	78.008	92.590	54.055	1.00	36.76	6
ATOM	19485	CG	GLN	M1375	77.738	91.208	54.584	1.00	37.15	6
ATOM	19486	CD	GLN	M1375	78.817	90.238	54.190	1.00	37.52	6
ATOM	19487	OE1	GLN	M1375	78.969	89.921	53.012	1.00	37.07	8
ATOM	19488	NE2	GLN	M1375	79.583	89.762	55.169	1.00	36.68	7
ATOM	19489	C	GLN	M1375	79.577	94.517	54.074	1.00	29.06	6
ATOM	19490	O	GLN	M1375	80.518	94.383	53.289	1.00	28.43	8
ATOM	19491	N	MET	M1376	78.950	95.673	54.274	1.00	42.74	7
ATOM	19492	CA	MET	M1376	79.372	96.893	53.597	1.00	46.22	6
ATOM	19493	CB	MET	M1376	78.395	98.030	53.865	1.00	31.58	6
ATOM	19494	CG	MET	M1376	77.084	97.873	53.164	1.00	31.71	6
ATOM	19495	SD	MET	M1376	76.110	99.368	53.262	1.00	31.80	16
ATOM	19496	CE	MET	M1376	75.120	99.022	54.736	1.00	29.71	6
ATOM	19497	C	MET	M1376	80.743	97.287	54.126	1.00	50.18	6
ATOM	19498	O	MET	M1376	81.651	97.633	53.365	1.00	51.17	8
ATOM	19499	N	LEU	M1377	80.884	97.239	55.445	1.00	99.63	7
ATOM	19500	CA	LEU	M1377	82.144	97.576	56.085	1.00	102.98	6
ATOM	19501	CB	LEU	M1377	81.899	98.276	57.431	1.00	39.74	6
ATOM	19502	CG	LEU	M1377	81.791	99.809	57.455	1.00	39.67	6
ATOM	19503	CD1	LEU	M1377	82.421	100.388	56.199	1.00	37.44	6
ATOM	19504	CD2	LEU	M1377	80.353	100.241	57.554	1.00	40.91	6
ATOM	19505	C	LEU	M1377	82.995	96.333	56.298	1.00	105.69	6
ATOM	19506	O	LEU	M1377	83.405	96.039	57.420	1.00	106.74	8
ATOM	19507	N	LYS	M1378	83.250	95.593	55.225	1.00	65.31	7
ATOM	19508	CA	LYS	M1378	84.069	94.404	55.354	1.00	67.42	6
ATOM	19509	CB	LYS	M1378	83.295	93.142	54.942	1.00	75.64	6
ATOM	19510	CG	LYS	M1378	83.409	92.763	53.477	1.00	76.91	6
ATOM	19511	CD	LYS	M1378	82.999	91.306	53.220	1.00	78.29	6
ATOM	19512	CE	LYS	M1378	83.163	90.924	51.737	1.00	79.71	6
ATOM	19513	NZ	LYS	M1378	82.821	89.504	51.415	1.00	81.23	7
ATOM	19514	C	LYS	M1378	85.333	94.555	54.516	1.00	69.00	6
ATOM	19515	O	LYS	M1378	86.295	93.807	54.707	1.00	69.64	8
ATOM	19516	N	TYR	M1379	85.347	95.529	53.606	1.00	66.96	7
ATOM	19517	CA	TYR	M1379	86.529	95.744	52.769	1.00	69.04	6
ATOM	19518	CB	TYR	M1379	86.125	96.110	51.347	1.00	85.05	6
ATOM	19519	CG	TYR	M1379	85.092	95.192	50.770	1.00	85.78	6
ATOM	19520	CD1	TYR	M1379	83.781	95.228	51.230	1.00	86.68	6
ATOM										

ATOM	19536	CA	GLU	M1381	92.453	99.579	51.789	1.00	90.81	6
ATOM	19537	CB	GLU	M1381	92.021	100.954	51.271	1.00	82.68	6
ATOM	19538	CG	GLU	M1381	92.907	101.529	50.181	1.00	83.08	6
ATOM	19539	CD	GLU	M1381	92.647	103.012	49.939	1.00	84.51	6
ATOM	19540	OE1	GLU	M1381	92.955	103.826	50.835	1.00	84.88	8
ATOM	19541	OE2	GLU	M1381	92.133	103.367	48.856	1.00	85.21	8
ATOM	19542	C	GLU	M1381	93.792	99.695	52.529	1.00	91.47	6
ATOM	19543	O	GLU	M1381	93.973	100.554	53.394	1.00	91.06	8
ATOM	19544	N	VAL	M1382	94.719	98.813	52.177	1.00	97.50	7
ATOM	19545	CA	VAL	M1382	96.036	98.743	52.800	1.00	98.76	6
ATOM	19546	CB	VAL	M1382	96.937	97.759	52.036	1.00	69.35	6
ATOM	19547	CG1	VAL	M1382	98.075	97.313	52.920	1.00	69.00	6
ATOM	19548	CG2	VAL	M1382	96.122	96.563	51.569	1.00	69.06	6
ATOM	19549	C	VAL	M1382	96.780	100.071	52.923	1.00	100.20	6
ATOM	19550	O	VAL	M1382	96.307	101.107	52.460	1.00	100.77	8
ATOM	19551	N	THR	M1383	97.942	100.011	53.572	1.00	90.21	7
ATOM	19552	CA	THR	M1383	98.837	101.150	53.794	1.00	91.49	6
ATOM	19553	CB	THR	M1383	98.236	102.232	54.734	1.00	61.68	6
ATOM	19554	OG1	THR	M1383	97.421	101.611	55.735	1.00	60.19	8
ATOM	19555	CG2	THR	M1383	97.443	103.257	53.945	1.00	59.51	6
ATOM	19556	C	THR	M1383	100.110	100.636	54.462	1.00	93.44	6
ATOM	19557	O	THR	M1383	100.045	99.755	55.327	1.00	93.71	8
ATOM	19558	N	ASP	M1384	101.256	101.191	54.064	1.00	125.96	7
ATOM	19559	CA	ASP	M1384	102.555	100.802	54.618	1.00	127.23	6
ATOM	19560	CB	ASP	M1384	102.774	101.496	55.969	1.00	208.87	6
ATOM	19561	CG	ASP	M1384	104.204	101.378	56.466	1.00	208.87	6
ATOM	19562	OD1	ASP	M1384	104.690	100.240	56.631	1.00	208.87	8
ATOM	19563	OD2	ASP	M1384	104.841	102.429	56.698	1.00	208.87	8
ATOM	19564	C	ASP	M1384	102.593	99.284	54.791	1.00	126.28	6
ATOM	19565	O	ASP	M1384	102.663	98.771	55.909	1.00	126.47	8
ATOM	19566	N	PRO	M1385	102.535	98.545	53.675	1.00	51.55	7
ATOM	19567	CD	PRO	M1385	102.333	99.047	52.302	1.00	58.03	6
ATOM	19568	CA	PRO	M1385	102.557	97.083	53.698	1.00	50.98	6
ATOM	19569	CB	PRO	M1385	102.079	96.713	52.295	1.00	57.87	6
ATOM	19570	CG	PRO	M1385	102.615	97.829	51.461	1.00	57.47	6
ATOM	19571	C	PRO	M1385	103.893	96.426	54.047	1.00	51.45	6
ATOM	19572	O	PRO	M1385	104.950	97.069	54.046	1.00	50.55	8
ATOM	19573	N	GLY	M1386	103.814	95.129	54.339	1.00	117.85	7
ATOM	19574	CA	GLY	M1386	104.977	94.330	54.685	1.00	119.09	6
ATOM	19575	C	GLY	M1386	104.680	92.901	54.271	1.00	120.09	6
ATOM	19576	O	GLY	M1386	103.549	92.435	54.433	1.00	120.81	8
ATOM	19577	N	ASP	M1387	105.678	92.205	53.729	1.00	120.62	7
ATOM	19578	CA	ASP	M1387	105.503	90.821	53.271	1.00	121.76	6
ATOM	19579	CB	ASP	M1387	105.221	89.882	54.456	1.00	208.87	6
ATOM	19580	CG	ASP	M1387	106.472	89.555	55.267	1.00	208.87	6
ATOM	19581	OD1	ASP	M1387	107.460	89.069	54.674	1.00	208.87	8
ATOM	19582	OD2	ASP	M1387	106.462	89.769	56.500	1.00	208.87	8
ATOM	19583	C	ASP	M1387	104.346	90.733	52.275	1.00	121.46	6
ATOM	19584	O	ASP	M1387	104.026	89.661	51.762	1.00	120.77	8
ATOM	19585	N	SER	M1388	103.732	91.877	51.998	1.00	131.93	7
ATOM	19586	CA	SER	M1388	102.603	91.937	51.089	1.00	131.21	6
ATOM	19587	CB	SER	M1388	101.311	91.859	51.901	1.00	139.67	6
ATOM	19588	OG	SER	M1388	101.365	90.785	52.827	1.00	139.06	8
ATOM	19589	C	SER	M1388	102.651	93.233	50.278	1.00	130.81	6
ATOM	19590	O	SER	M1388	102.876	94.311	50.833	1.00	130.71	8
ATOM	19591	N	PRO	M1389	102.429	93.140	48.950	1.00	115.38	7

ATOM	19592	CD	PRO	M1389	102.152	91.882	48.224	1.00	64.27	6
ATOM	19593	CA	PRO	M1389	102.444	94.283	48.023	1.00	114.75	6
ATOM	19594	CB	PRO	M1389	102.496	93.605	46.658	1.00	64.24	6
ATOM	19595	CG	PRO	M1389	101.648	92.382	46.879	1.00	63.80	6
ATOM	19596	C	PRO	M1389	101.261	95.250	48.129	1.00	114.34	6
ATOM	19597	O	PRO	M1389	100.447	95.163	49.050	1.00	113.72	8
ATOM	19598	N	LEU	M1390	101.195	96.179	47.174	1.00	77.52	7
ATOM	19599	CA	LEU	M1390	100.124	97.172	47.089	1.00	77.72	6
ATOM	19600	CB	LEU	M1390	98.762	96.471	47.208	1.00	165.74	6
ATOM	19601	CG	LEU	M1390	98.567	95.145	46.458	1.00	167.33	6
ATOM	19602	CD1	LEU	M1390	97.185	94.581	46.761	1.00	166.78	6
ATOM	19603	CD2	LEU	M1390	98.744	95.358	44.965	1.00	168.14	6
ATOM	19604	C	LEU	M1390	100.193	98.306	48.120	1.00	77.64	6
ATOM	19605	O	LEU	M1390	101.166	98.447	48.870	1.00	77.42	8
ATOM	19606	N	LEU	M1391	99.143	99.124	48.129	1.00	208.87	7
ATOM	19607	CA	LEU	M1391	98.999	100.243	49.057	1.00	208.87	6
ATOM	19608	CB	LEU	M1391	99.681	101.507	48.527	1.00	134.86	6
ATOM	19609	CG	LEU	M1391	99.638	102.697	49.499	1.00	134.55	6
ATOM	19610	CD1	LEU	M1391	100.453	102.370	50.744	1.00	134.50	6
ATOM	19611	CD2	LEU	M1391	100.181	103.944	48.826	1.00	134.41	6
ATOM	19612	C	LEU	M1391	97.501	100.489	49.197	1.00	208.87	6
ATOM	19613	O	LEU	M1391	97.020	100.916	50.242	1.00	208.87	8
ATOM	19614	N	GLU	M1392	96.776	100.219	48.116	1.00	103.79	7
ATOM	19615	CA	GLU	M1392	95.324	100.358	48.068	1.00	102.15	6
ATOM	19616	CB	GLU	M1392	94.922	101.557	47.195	1.00	150.32	6
ATOM	19617	CG	GLU	M1392	94.969	102.936	47.888	1.00	150.57	6
ATOM	19618	CD	GLU	M1392	96.376	103.466	48.148	1.00	151.09	6
ATOM	19619	OE1	GLU	M1392	97.136	103.659	47.178	1.00	151.80	8
ATOM	19620	OE2	GLU	M1392	96.721	103.705	49.325	1.00	151.25	8
ATOM	19621	C	GLU	M1392	94.828	99.052	47.451	1.00	100.68	6
ATOM	19622	O	GLU	M1392	94.316	99.034	46.331	1.00	100.15	8
ATOM	19623	N	GLY	M1393	95.007	97.964	48.198	1.00	71.24	7
ATOM	19624	CA	GLY	M1393	94.624	96.642	47.732	1.00	69.11	6
ATOM	19625	C	GLY	M1393	93.153	96.277	47.810	1.00	68.17	6
ATOM	19626	O	GLY	M1393	92.735	95.292	47.196	1.00	67.32	8
ATOM	19627	N	GLN	M1394	92.363	97.053	48.547	1.00	37.61	7
ATOM	19628	CA	GLN	M1394	90.941	96.766	48.678	1.00	37.13	6
ATOM	19629	CB	GLN	M1394	90.204	97.214	47.407	1.00	130.66	6
ATOM	19630	CG	GLN	M1394	88.687	97.294	47.547	1.00	132.41	6
ATOM	19631	CD	GLN	M1394	88.049	98.236	46.532	1.00	132.57	6
ATOM	19632	OE1	GLN	M1394	88.172	98.046	45.323	1.00	132.50	8
ATOM	19633	NE2	GLN	M1394	87.363	99.260	47.028	1.00	132.53	7
ATOM	19634	C	GLN	M1394	90.731	95.260	48.945	1.00	36.70	6
ATOM	19635	O	GLN	M1394	90.282	94.500	48.071	1.00	35.41	8
ATOM	19636	N	VAL	M1395	91.058	94.858	50.177	1.00	42.77	7
ATOM	19637	CA	VAL	M1395	90.960	93.473	50.641	1.00	43.23	6
ATOM	19638	CB	VAL	M1395	92.363	92.949	51.094	1.00	71.52	6
ATOM	19639	CG1	VAL	M1395	92.275	91.518	51.576	1.00	71.52	6
ATOM	19640	CG2	VAL	M1395	93.344	93.036	49.942	1.00	71.88	6
ATOM	19641	C	VAL	M1395	89.977	93.339	51.806	1.00	43.82	6
ATOM	19642	O	VAL	M1395	89.641	94.318	52.466	1.00	43.49	8
ATOM	19643	N	ALA	M1396	89.537	92.109	52.049	1.00	99.50	7
ATOM	19644	CA	ALA	M1396	88.586	91.800	53.111	1.00	101.35	6
ATOM	19645	CB	ALA	M1396	88.011	90.402	52.887	1.00	66.86	6
ATOM	19646	C	ALA	M1396	89.165	91.912	54.523	1.00	102.80	6
ATOM	19647	O	ALA	M1396	89.981	91.092	54.945	1.00	103.86	8

ATOM	19648	N	GLU	M1397	88.709	92.929	55.248	1.00	70.78	7
ATOM	19649	CA	GLU	M1397	89.148	93.201	56.614	1.00	71.98	6
ATOM	19650	CB	GLU	M1397	88.065	93.969	57.363	1.00	95.20	6
ATOM	19651	CG	GLU	M1397	88.376	94.163	58.830	1.00	94.18	6
ATOM	19652	CD	GLU	M1397	87.126	94.359	59.656	1.00	93.94	6
ATOM	19653	OE1	GLU	M1397	86.408	95.355	59.418	1.00	94.32	8
ATOM	19654	OE2	GLU	M1397	86.855	93.514	60.539	1.00	93.97	8
ATOM	19655	C	GLU	M1397	89.557	91.993	57.456	1.00	73.50	6
ATOM	19656	O	GLU	M1397	90.508	92.079	58.226	1.00	73.72	8
ATOM	19657	N	LYS	M1398	88.839	90.881	57.341	1.00	143.02	7
ATOM	19658	CA	LYS	M1398	89.195	89.705	58.129	1.00	145.05	6
ATOM	19659	CB	LYS	M1398	88.014	88.737	58.253	1.00	121.91	6
ATOM	19660	CG	LYS	M1398	88.354	87.439	58.996	1.00	122.19	6
ATOM	19661	CD	LYS	M1398	89.018	87.707	60.352	1.00	122.44	6
ATOM	19662	CE	LYS	M1398	89.523	86.420	61.007	1.00	123.06	6
ATOM	19663	NZ	LYS	M1398	90.331	86.670	62.240	1.00	123.08	7
ATOM	19664	C	LYS	M1398	90.379	88.992	57.507	1.00	146.10	6
ATOM	19665	O	LYS	M1398	91.278	88.532	58.210	1.00	146.57	8
ATOM	19666	N	TRP	M1399	90.378	88.893	56.184	1.00	76.62	7
ATOM	19667	CA	TRP	M1399	91.485	88.251	55.496	1.00	77.83	6
ATOM	19668	CB	TRP	M1399	91.315	88.395	53.980	1.00	198.31	6
ATOM	19669	CG	TRP	M1399	92.033	87.349	53.176	1.00	199.94	6
ATOM	19670	CD2	TRP	M1399	93.166	87.545	52.317	1.00	200.76	6
ATOM	19671	CE2	TRP	M1399	93.497	86.285	51.768	1.00	201.10	6
ATOM	19672	CE3	TRP	M1399	93.935	88.661	51.960	1.00	200.98	6
ATOM	19673	CD1	TRP	M1399	91.733	86.018	53.113	1.00	200.52	6
ATOM	19674	NE1	TRP	M1399	92.607	85.372	52.270	1.00	201.06	7
ATOM	19675	CZ2	TRP	M1399	94.564	86.111	50.877	1.00	201.30	6
ATOM	19676	CZ3	TRP	M1399	94.997	88.487	51.072	1.00	200.99	6
ATOM	19677	CH2	TRP	M1399	95.300	87.221	50.543	1.00	201.01	6
ATOM	19678	C	TRP	M1399	92.725	89.018	55.964	1.00	78.09	6
ATOM	19679	O	TRP	M1399	93.818	88.464	56.101	1.00	77.43	8
ATOM	19680	N	ASP	M1400	92.517	90.304	56.234	1.00	112.62	7
ATOM	19681	CA	ASP	M1400	93.570	91.207	56.680	1.00	113.56	6
ATOM	19682	CB	ASP	M1400	93.139	92.648	56.440	1.00	96.52	6
ATOM	19683	CG	ASP	M1400	94.258	93.505	55.926	1.00	96.52	6
ATOM	19684	OD1	ASP	M1400	94.606	93.383	54.732	1.00	95.82	8
ATOM	19685	OD2	ASP	M1400	94.798	94.302	56.713	1.00	97.49	8
ATOM	19686	C	ASP	M1400	93.886	91.026	58.159	1.00	114.67	6
ATOM	19687	O	ASP	M1400	94.914	91.496	58.640	1.00	114.97	8
ATOM	19688	N	VAL	M1401	92.990	90.362	58.880	1.00		

ATOM	19704	N	ALA	M1403	96.948	88.433	58.558	1.00136.01	7
ATOM	19705	CA	ALA	M1403	98.287	88.992	58.411	1.00136.28	6
ATOM	19706	CB	ALA	M1403	98.255	90.165	57.447	1.00 77.89	6
ATOM	19707	C	ALA	M1403	98.812	89.446	59.764	1.00136.20	6
ATOM	19708	O	ALA	M1403	99.704	88.819	60.331	1.00136.35	8
ATOM	19709	N	LEU	M1404	98.249	90.536	60.278	1.00 93.65	7
ATOM	19710	CA	LEU	M1404	98.653	91.078	61.573	1.00 94.44	6
ATOM	19711	CB	LEU	M1404	97.762	92.262	61.954	1.00189.17	6
ATOM	19712	CG	LEU	M1404	98.138	93.611	61.344	1.00189.28	6
ATOM	19713	CD1	LEU	M1404	97.128	94.665	61.764	1.00189.56	6
ATOM	19714	CD2	LEU	M1404	99.534	94.000	61.808	1.00189.25	6
ATOM	19715	C	LEU	M1404	98.639	90.061	62.707	1.00 94.69	6
ATOM	19716	O	LEU	M1404	98.786	90.425	63.869	1.00 94.40	8
ATOM	19717	N	ASN	M1405	98.441	88.794	62.368	1.00208.26	7
ATOM	19718	CA	ASN	M1405	98.434	87.722	63.355	1.00208.87	6
ATOM	19719	CB	ASN	M1405	97.093	86.986	63.348	1.00182.53	6
ATOM	19720	CG	ASN	M1405	97.168	85.636	64.044	1.00183.31	6
ATOM	19721	OD1	ASN	M1405	97.519	85.550	65.221	1.00182.88	8
ATOM	19722	ND2	ASN	M1405	96.845	84.574	63.314	1.00183.70	7
ATOM	19723	C	ASN	M1405	99.543	86.740	63.016	1.00208.87	6
ATOM	19724	O	ASN	M1405	100.505	86.581	63.769	1.00208.87	8
ATOM	19725	N	GLU	M1406	99.396	86.085	61.870	1.00 92.51	7
ATOM	19726	CA	GLU	M1406	100.372	85.112	61.407	1.00 92.09	6
ATOM	19727	CB	GLU	M1406	99.851	84.446	60.133	1.00123.09	6
ATOM	19728	CG	GLU	M1406	100.374	83.048	59.874	1.00122.99	6
ATOM	19729	CD	GLU	M1406	99.567	82.333	58.807	1.00123.10	6
ATOM	19730	OE1	GLU	M1406	99.438	82.876	57.688	1.00122.69	8
ATOM	19731	OE2	GLU	M1406	99.057	81.229	59.086	1.00123.08	8
ATOM	19732	C	GLU	M1406	101.678	85.854	61.143	1.00 91.83	6
ATOM	19733	O	GLU	M1406	102.747	85.250	61.082	1.00 91.75	8
ATOM	19734	N	ARG	M1407	101.574	87.174	61.001	1.00160.99	7
ATOM	19735	CA	ARG	M1407	102.732	88.027	60.759	1.00161.66	6
ATOM	19736	CB	ARG	M1407	102.457	88.988	59.600	1.00168.21	6
ATOM	19737	CG	ARG	M1407	102.290	88.326	58.242	1.00169.31	6
ATOM	19738	CD	ARG	M1407	103.610	87.786	57.713	1.00170.45	6
ATOM	19739	NE	ARG	M1407	103.507	87.398	56.308	1.00172.31	7
ATOM	19740	CZ	ARG	M1407	104.522	86.939	55.584	1.00172.51	6
ATOM	19741	NH1	ARG	M1407	105.723	86.808	56.131	1.00172.38	7
ATOM	19742	NH2	ARG	M1407	104.339	86.619	54.310	1.00172.91	7
ATOM	19743	C	ARG	M1407	103.085	88.835	62.007	1.00161.67	6
ATOM	19744	O	ARG	M1407	104.172	89.409	62.094	1.00161.67	8
ATOM	19745	N	LEU	M1408	102.163	88.890	62.966	1.00105.75	7
ATOM	19746	CA	LEU	M1408	102.406	89.624	64.204	1.00105.26	6
ATOM	19747	CB	LEU	M1408	101.145	89.680	65.063	1.00208.87	6
ATOM	19748	CG	LEU	M1408	101.263	90.523	66.338	1.00208.87	6
ATOM	19749	CD1	LEU	M1408	101.455	91.989	65.973	1.00208.87	6
ATOM	19750	CD2	LEU	M1408	100.013	90.350	67.183	1.00208.87	6
ATOM	19751	C	LEU	M1408	103.503	88.924	64.991	1.00104.97	6
ATOM	19752	O	LEU	M1408	104.010	89.459	65.978	1.00104.90	8
ATOM	19753	N	ILE	M1409	103.850	87.715	64.555	1.00118.87	7
ATOM	19754	CA	ILE	M1409	104.892	86.924	65.199	1.00118.29	6
ATOM	19755	CB	ILE	M1409	104.837	85.462	64.733	1.00157.06	6
ATOM	19756	CG2	ILE	M1409	105.718	84.599	65.616	1.00157.66	6
ATOM	19757	CG1	ILE	M1409	103.390	84.960	64.779	1.00157.31	6
ATOM	19758	CD1	ILE	M1409	102.717	85.121	66.129	1.00157.10	6
ATOM	19759	C	ILE	M1409	106.232	87.529	64.807	1.00118.31	6

ATOM	19760	O	ILE M1409	107.199	86.823	64.520	1.00118.52	8
ATOM	19761	N	ALA M1410	106.252	88.857	64.788	1.00110.75	7
ATOM	19762	CA	ALA M1410	107.421	89.648	64.438	1.00110.99	6
ATOM	19763	CB	ALA M1410	107.612	89.653	62.925	1.00 75.19	6
ATOM	19764	C	ALA M1410	107.177	91.071	64.942	1.00111.09	6
ATOM	19765	O	ALA M1410	107.233	92.003	64.118	1.00111.24	8
ATOM	19766	OXT	ALA M1410	106.923	91.240	66.154	1.00 76.43	8
ATOM	19767	CB	VAL N1414	106.256	92.922	60.034	1.00103.76	6
ATOM	19768	CG1	VAL N1414	106.136	93.593	58.675	1.00104.04	6
ATOM	19769	CG2	VAL N1414	107.662	92.370	60.235	1.00104.28	6
ATOM	19770	C	VAL N1414	104.501	94.461	60.929	1.00121.75	6
ATOM	19771	O	VAL N1414	103.622	93.742	60.445	1.00121.37	8
ATOM	19772	N	VAL N1414	106.020	93.308	62.501	1.00122.57	7
ATOM	19773	CA	VAL N1414	105.916	93.935	61.153	1.00122.38	6
ATOM	19774	N	PRO N1415	104.266	95.733	61.278	1.00166.28	7
ATOM	19775	CD	PRO N1415	105.228	96.695	61.849	1.00 86.61	6
ATOM	19776	CA	PRO N1415	102.948	96.349	61.113	1.00165.75	6
ATOM	19777	CB	PRO N1415	103.236	97.831	61.341	1.00 86.35	6
ATOM	19778	CG	PRO N1415	104.316	97.786	62.381	1.00 86.42	6
ATOM	19779	C	PRO N1415	102.290	96.081	59.760	1.00165.13	6
ATOM	19780	O	PRO N1415	102.760	96.546	58.721	1.00165.22	8
ATOM	19781	N	VAL N1416	101.204	95.313	59.792	1.00118.55	7
ATOM	19782	CA	VAL N1416	100.429	94.985	58.598	1.00117.25	6
ATOM	19783	CB	VAL N1416	100.067	93.493	58.552	1.00 85.54	6
ATOM	19784	CG1	VAL N1416	99.290	93.187	57.282	1.00 85.07	6
ATOM	19785	CG2	VAL N1416	101.333	92.652	58.647	1.00 85.05	6
ATOM	19786	C	VAL N1416	99.135	95.774	58.709	1.00116.02	6
ATOM	19787	O	VAL N1416	98.072	95.194	58.912	1.00115.60	8
ATOM	19788	N	ALA N1417	99.228	97.094	58.581	1.00100.17	7
ATOM	19789	CA	ALA N1417	98.059	97.952	58.713	1.00 98.01	6
ATOM	19790	CB	ALA N1417	98.472	99.329	59.214	1.00 53.64	6
ATOM	19791	C	ALA N1417	97.245	98.091	57.443	1.00 96.92	6
ATOM	19792	O	ALA N1417	97.740	97.847	56.342	1.00 97.36	8
ATOM	19793	N	TRP N1418	95.990	98.498	57.625	1.00 76.29	7
ATOM	19794	CA	TRP N1418	95.035	98.690	56.541	1.00 73.93	6
ATOM	19795	CB	TRP N1418	94.174	97.438	56.414	1.00 79.43	6
ATOM	19796	CG	TRP N1418	93.206	97.291	57.549	1.00 80.05	6
ATOM	19797	CD2	TRP N1418	93.369	96.486	58.715	1.00 80.30	6
ATOM	19798	CE2	TRP N1418	92.245	96.713	59.541	1.00 80.89	6
ATOM	19799	CE3	TRP N1418	94.354	95.593	59.147	1.00 80.13	6
ATOM	19800	CD1	TRP N1418	92.022	97.955	57.708	1.00 80.75	6
ATOM	19801	NE1	TRP N1418	91.439	97.615	58.900	1.00 81.20	7
ATOM	19802	CZ2	TRP N1418	92.081	96.079	60.777	1.00 81.08	6
ATOM	19803	CZ3	TRP N1418	94.192	94.960	60.378	1.00 80.13	6
ATOM	19804	CH2	TRP N1418	93.063	95.208	61.177	1.00 80.82	6
ATOM	19805	C	TRP N1418	94.158	99.872	56.948	1.00 72.31	6
ATOM	19806	O	TRP N1418	94.292	100.371	58.060	1.00 71.80	8
ATOM	19807	N	LYS N1419	93.259	100.305	56.063	1.00 83.62	7
ATOM	19808	CA	LYS N1419	92.335	101.407	56.362	1.00 82.32	6
ATOM	19809	CB	LYS N1419	92.670	102.625	55.498	1.00106.59	6
ATOM	19810	CG	LYS N1419	93.997	103.267	55.874	1.00110.34	6
ATOM	19811	CD	LYS N1419	94.270	104.562	55.113	1.00112.26	6
ATOM	19812	CE	LYS N1419	95.536	105.254	55.637	1.00113.28	6
ATOM	19813	NZ	LYS N1419	95.935	106.457	54.845	1.00113.93	7
ATOM	19814	C	LYS N1419	90.882	100.965	56.121	1.00 80.11	6
ATOM	19815	O	LYS N1419	90.633	100.112	55.279	1.00 80.55	8



ATOM	19816	N	PRO	N1420	89.909	101.509	56.882	1.00	41.53	7
ATOM	19817	CD	PRO	N1420	90.094	102.216	58.162	1.00	101.26	6
ATOM	19818	CA	PRO	N1420	88.496	101.132	56.703	1.00	38.15	6
ATOM	19819	CB	PRO	N1420	87.878	101.431	58.067	1.00	98.29	6
ATOM	19820	CG	PRO	N1420	88.671	102.592	58.537	1.00	99.71	6
ATOM	19821	C	PRO	N1420	87.755	101.838	55.562	1.00	35.21	6
ATOM	19822	O	PRO	N1420	87.531	103.043	55.594	1.00	34.19	8
ATOM	19823	N	LEU	N1421	87.369	101.058	54.560	1.00	53.01	7
ATOM	19824	CA	LEU	N1421	86.670	101.567	53.389	1.00	50.78	6
ATOM	19825	CB	LEU	N1421	87.303	100.962	52.131	1.00	51.46	6
ATOM	19826	CG	LEU	N1421	86.696	101.213	50.752	1.00	51.59	6
ATOM	19827	CD1	LEU	N1421	86.407	102.688	50.544	1.00	52.13	6
ATOM	19828	CD2	LEU	N1421	87.664	100.704	49.705	1.00	52.24	6
ATOM	19829	C	LEU	N1421	85.173	101.238	53.480	1.00	49.30	6
ATOM	19830	O	LEU	N1421	84.780	100.282	54.155	1.00	49.32	8
ATOM	19831	N	LEU	N1422	84.344	102.044	52.812	1.00	79.90	7
ATOM	19832	CA	LEU	N1422	82.888	101.871	52.828	1.00	78.18	6
ATOM	19833	CB	LEU	N1422	82.203	103.183	53.222	1.00	42.96	6
ATOM	19834	CG	LEU	N1422	80.812	103.115	53.854	1.00	40.12	6
ATOM	19835	CD1	LEU	N1422	80.959	102.831	55.335	1.00	39.70	6
ATOM	19836	CD2	LEU	N1422	80.078	104.427	53.658	1.00	38.75	6
ATOM	19837	C	LEU	N1422	82.383	101.454	51.456	1.00	78.42	6
ATOM	19838	O	LEU	N1422	82.441	102.230	50.501	1.00	78.07	8
ATOM	19839	N	MET	N1423	81.876	100.230	51.367	1.00	59.38	7
ATOM	19840	CA	MET	N1423	81.366	99.709	50.108	1.00	58.29	6
ATOM	19841	CB	MET	N1423	81.770	98.244	49.942	1.00	30.39	6
ATOM	19842	CG	MET	N1423	83.253	97.998	49.946	1.00	27.16	6
ATOM	19843	SD	MET	N1423	84.006	98.405	48.393	1.00	25.19	16
ATOM	19844	CE	MET	N1423	84.526	96.839	47.818	1.00	23.94	6
ATOM	19845	C	MET	N1423	79.852	99.803	50.039	1.00	59.24	6
ATOM	19846	O	MET	N1423	79.163	99.562	51.031	1.00	59.56	8
ATOM	19847	N	GLY	N1424	79.341	100.170	48.868	1.00	56.07	7
ATOM	19848	CA	GLY	N1424	77.904	100.230	48.683	1.00	56.69	6
ATOM	19849	C	GLY	N1424	77.515	98.773	48.740	1.00	57.24	6
ATOM	19850	O	GLY	N1424	78.365	97.920	48.510	1.00	57.38	8
ATOM	19851	N	VAL	N1425	76.268	98.455	49.047	1.00	58.10	7
ATOM	19852	CA	VAL	N1425	75.913	97.050	49.123	1.00	59.55	6
ATOM	19853	CB	VAL	N1425	74.447	96.878	49.563	1.00	27.26	6
ATOM	19854	CG1	VAL	N1425	73.583	96.471	48.399	1.00	28.54	6
ATOM	19855	CG2	VAL	N1425	74.368	95.867	50.678	1.00	26.37	6
ATOM	19856	C	VAL	N1425	76.168	96.385	47.770	1.00	62.07	6

ATOM	19872	C	LYS	N1427	80.541	96.306	45.858	1.00102.13	6
ATOM	19873	O	LYS	N1427	81.758	96.170	45.856	1.00102.94	8
ATOM	19874	N	SER	N1428	79.740	95.638	46.681	1.00 55.35	7
ATOM	19875	CA	SER	N1428	80.275	94.674	47.632	1.00 56.80	6
ATOM	19876	CB	SER	N1428	79.495	94.710	48.941	1.00102.03	6
ATOM	19877	OG	SER	N1428	80.031	93.772	49.861	1.00102.63	8
ATOM	19878	C	SER	N1428	80.199	93.287	47.040	1.00 57.86	6
ATOM	19879	O	SER	N1428	81.183	92.757	46.548	1.00 58.67	8
ATOM	19880	N	ALA	N1429	79.018	92.701	47.083	1.00 69.75	7
ATOM	19881	CA	ALA	N1429	78.816	91.373	46.532	1.00 72.29	6
ATOM	19882	CB	ALA	N1429	77.338	91.048	46.523	1.00161.19	6
ATOM	19883	C	ALA	N1429	79.371	91.283	45.114	1.00 73.78	6
ATOM	19884	O	ALA	N1429	79.478	90.198	44.544	1.00 74.63	8
ATOM	19885	N	LEU	N1430	79.715	92.428	44.541	1.00 93.94	7
ATOM	19886	CA	LEU	N1430	80.247	92.463	43.190	1.00 94.88	6
ATOM	19887	CB	LEU	N1430	79.630	93.633	42.423	1.00 76.85	6
ATOM	19888	CG	LEU	N1430	80.235	94.093	41.093	1.00 78.01	6
ATOM	19889	CD1	LEU	N1430	80.461	92.928	40.143	1.00 77.71	6
ATOM	19890	CD2	LEU	N1430	79.289	95.117	40.481	1.00 78.72	6
ATOM	19891	C	LEU	N1430	81.761	92.581	43.182	1.00 95.68	6
ATOM	19892	O	LEU	N1430	82.409	92.238	42.199	1.00 96.02	8
ATOM	19893	N	SER	N1431	82.332	93.050	44.280	1.00119.83	7
ATOM	19894	CA	SER	N1431	83.771	93.214	44.336	1.00121.26	6
ATOM	19895	CB	SER	N1431	84.111	94.698	44.512	1.00192.28	6
ATOM	19896	OG	SER	N1431	85.506	94.902	44.669	1.00193.66	8
ATOM	19897	C	SER	N1431	84.430	92.412	45.439	1.00120.88	6
ATOM	19898	O	SER	N1431	84.908	92.999	46.408	1.00122.18	8
ATOM	19899	N	THR	N1432	84.468	91.084	45.311	1.00 75.41	7
ATOM	19900	CA	THR	N1432	85.117	90.293	46.361	1.00 74.58	6
ATOM	19901	CB	THR	N1432	84.540	90.645	47.748	1.00198.41	6
ATOM	19902	OG1	THR	N1432	85.351	90.058	48.776	1.00198.05	8
ATOM	19903	CG2	THR	N1432	83.121	90.117	47.875	1.00199.11	6
ATOM	19904	C	THR	N1432	85.172	88.766	46.326	1.00 72.80	6
ATOM	19905	O	THR	N1432	84.315	88.093	45.749	1.00 71.38	8
ATOM	19906	N	LYS	N1433	86.211	88.273	47.003	1.00 65.86	7
ATOM	19907	CA	LYS	N1433	86.534	86.868	47.242	1.00 64.07	6
ATOM	19908	CB	LYS	N1433	85.510	86.287	48.236	1.00208.87	6
ATOM	19909	CG	LYS	N1433	84.057	86.430	47.797	1.00208.87	6
ATOM	19910	CD	LYS	N1433	83.064	86.186	48.918	1.00208.87	6
ATOM	19911	CE	LYS	N1433	81.651	86.472	48.428	1.00208.87	6
ATOM	19912	NZ	LYS	N1433	80.626	86.302	49.491	1.00208.87	7
ATOM	19913	C	LYS	N1433	86.759	85.861	46.116	1.00 61.69	6
ATOM	19914	O	LYS	N1433	87.853	85.777	45.551	1.00 61.66	8
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ATOM	19928	CD1	TRP	N1435	86.738	82.391	38.500	1.00	35.21	6
ATOM	19929	NE1	TRP	N1435	86.621	81.050	38.231	1.00	34.18	7
ATOM	19930	CZ2	TRP	N1435	87.298	78.963	39.442	1.00	33.23	6
ATOM	19931	CZ3	TRP	N1435	88.412	79.425	41.537	1.00	33.70	6
ATOM	19932	CH2	TRP	N1435	87.916	78.527	40.583	1.00	33.93	6
ATOM	19933	C	TRP	N1435	85.100	83.980	40.526	1.00	64.27	6
ATOM	19934	O	TRP	N1435	84.442	84.614	39.692	1.00	64.33	8
ATOM	19935	N	LEU	N1436	84.753	82.789	41.006	1.00	80.10	7
ATOM	19936	CA	LEU	N1436	83.582	82.028	40.588	1.00	77.84	6
ATOM	19937	CB	LEU	N1436	83.444	80.821	41.515	1.00	36.92	6
ATOM	19938	CG	LEU	N1436	82.841	79.556	40.916	1.00	34.67	6
ATOM	19939	CD1	LEU	N1436	83.689	79.106	39.737	1.00	33.49	6
ATOM	19940	CD2	LEU	N1436	82.754	78.461	41.976	1.00	34.28	6
ATOM	19941	C	LEU	N1436	82.247	82.785	40.507	1.00	77.74	6
ATOM	19942	O	LEU	N1436	81.628	82.842	39.446	1.00	78.00	8
ATOM	19943	N	SER	N1437	81.811	83.355	41.625	1.00	46.06	7
ATOM	19944	CA	SER	N1437	80.555	84.095	41.695	1.00	44.46	6
ATOM	19945	CB	SER	N1437	80.059	84.094	43.131	1.00	56.11	6
ATOM	19946	OG	SER	N1437	81.126	84.336	44.030	1.00	56.82	8
ATOM	19947	C	SER	N1437	80.602	85.531	41.181	1.00	43.34	6
ATOM	19948	O	SER	N1437	79.568	86.105	40.866	1.00	42.72	8
ATOM	19949	N	ALA	N1438	81.793	86.121	41.121	1.00	25.38	7
ATOM	19950	CA	ALA	N1438	81.939	87.483	40.616	1.00	24.36	6
ATOM	19951	CB	ALA	N1438	83.262	88.062	41.010	1.00	13.87	6
ATOM	19952	C	ALA	N1438	81.885	87.363	39.117	1.00	24.32	6
ATOM	19953	O	ALA	N1438	81.865	88.371	38.406	1.00	24.34	8
ATOM	19954	N	ALA	N1439	81.896	86.106	38.663	1.00	31.44	7
ATOM	19955	CA	ALA	N1439	81.842	85.716	37.247	1.00	32.45	6
ATOM	19956	CB	ALA	N1439	82.396	84.309	37.086	1.00	13.87	6
ATOM	19957	C	ALA	N1439	80.391	85.738	36.791	1.00	33.49	6
ATOM	19958	O	ALA	N1439	80.067	86.032	35.635	1.00	33.10	8
ATOM	19959	N	SER	N1440	79.528	85.387	37.732	1.00	37.46	7
ATOM	19960	CA	SER	N1440	78.112	85.352	37.490	1.00	36.77	6
ATOM	19961	CB	SER	N1440	77.360	85.090	38.795	1.00	58.28	6
ATOM	19962	OG	SER	N1440	77.856	83.943	39.465	1.00	58.96	8
ATOM	19963	C	SER	N1440	77.824	86.742	37.009	1.00	36.24	6
ATOM	19964	O	SER	N1440	76.954	86.953	36.162	1.00	35.69	8
ATOM	19965	N	PHE	N1441	78.589	87.690	37.536	1.00	17.74	7
ATOM	19966	CA	PHE	N1441	78.373	89.074	37.176	1.00	19.96	6
ATOM	19967	CB	PHE	N1441	79.172	89.992	38.093	1.00	30.81	6
ATOM	19968	CG	PHE	N1441	78.640	90.034	39.499	1.00	30.88	6
ATOM	19969	CD1	PHE	N1441	79.099	89.143	40.461	1.00	30.90	6
ATOM	19970	CD2	PHE	N1441	77.650	90.939	39.854	1.00	29.97	6
ATOM	19971	CE1	PHE	N1441	78.574	89.160	41.754	1.00	29.52	6
ATOM	19972	CE2	PHE	N1441	77.124	90.955	41.144	1.00	29.34	6
ATOM	19973	CZ	PHE	N1441	77.585	90.068	42.091	1.00	28.33	6
ATOM	19974	C	PHE	N1441	78.614	89.420	35.719	1.00	21.74	6
ATOM	19975	O	PHE	N1441	79.110	88.592	34.947	1.00	21.70	8
ATOM	19976	N	GLN	N1442	78.219	90.644	35.357	1.00	67.06	7
ATOM	19977	CA	GLN	N1442	78.336	91.184	34.000	1.00	69.94	6
ATOM	19978	CB	GLN	N1442	77.372	92.371	33.846	1.00	109.63	6
ATOM	19979	CG	GLN	N1442	77.268	92.989	32.449	1.00	113.01	6
ATOM	19980	CD	GLN	N1442	76.480	92.137	31.463	1.00	115.85	6
ATOM	19981	OE1	GLN	N1442	75.370	91.689	31.754	1.00	116.49	8
ATOM	19982	NE2	GLN	N1442	77.049	91.923	30.280	1.00	117.78	7
ATOM	19983	C	GLN	N1442	79.775	91.638	33.743	1.00	71.00	6

ATOM	19984	O	GLN	N1442	80.044	92.832	33.597	1.00	71.29	8
ATOM	19985	N	ASN	N1443	80.690	90.674	33.683	1.00	72.82	7
ATOM	19986	CA	ASN	N1443	82.107	90.941	33.468	1.00	72.00	6
ATOM	19987	CB	ASN	N1443	82.568	92.077	34.385	1.00	106.27	6
ATOM	19988	CG	ASN	N1443	82.405	91.741	35.862	1.00	108.12	6
ATOM	19989	OD1	ASN	N1443	81.469	91.040	36.254	1.00	107.31	8
ATOM	19990	ND2	ASN	N1443	83.312	92.254	36.691	1.00	110.30	7
ATOM	19991	C	ASN	N1443	82.875	89.668	33.801	1.00	71.20	6
ATOM	19992	O	ASN	N1443	83.833	89.690	34.570	1.00	71.75	8
ATOM	19993	N	THR	N1444	82.448	88.554	33.219	1.00	62.95	7
ATOM	19994	CA	THR	N1444	83.089	87.267	33.472	1.00	62.82	6
ATOM	19995	CB	THR	N1444	82.246	86.127	32.894	1.00	61.77	6
ATOM	19996	OG1	THR	N1444	80.933	86.174	33.472	1.00	62.25	8
ATOM	19997	CG2	THR	N1444	82.889	84.785	33.204	1.00	62.01	6
ATOM	19998	C	THR	N1444	84.510	87.176	32.912	1.00	63.05	6
ATOM	19999	O	THR	N1444	85.425	86.731	33.607	1.00	62.69	8
ATOM	20000	N	THR	N1445	84.687	87.589	31.655	1.00	31.70	7
ATOM	20001	CA	THR	N1445	85.999	87.571	31.012	1.00	30.06	6
ATOM	20002	CB	THR	N1445	86.068	88.526	29.809	1.00	61.07	6
ATOM	20003	OG1	THR	N1445	85.025	88.222	28.876	1.00	61.05	8
ATOM	20004	CG2	THR	N1445	87.398	88.391	29.123	1.00	61.55	6
ATOM	20005	C	THR	N1445	86.978	88.073	32.039	1.00	29.81	6
ATOM	20006	O	THR	N1445	87.773	87.322	32.567	1.00	28.84	8
ATOM	20007	N	HIS	N1446	86.881	89.359	32.336	1.00	53.13	7
ATOM	20008	CA	HIS	N1446	87.756	89.997	33.304	1.00	54.87	6
ATOM	20009	CB	HIS	N1446	87.204	91.375	33.678	1.00	67.65	6
ATOM	20010	CG	HIS	N1446	88.143	92.198	34.501	1.00	69.25	6
ATOM	20011	CD2	HIS	N1446	89.170	91.841	35.311	1.00	69.60	6
ATOM	20012	ND1	HIS	N1446	88.062	93.572	34.567	1.00	69.66	7
ATOM	20013	CE1	HIS	N1446	88.997	94.027	35.383	1.00	70.54	6
ATOM	20014	NE2	HIS	N1446	89.683	92.997	35.848	1.00	70.59	7
ATOM	20015	C	HIS	N1446	87.937	89.139	34.550	1.00	55.28	6
ATOM	20016	O	HIS	N1446	89.032	88.628	34.785	1.00	55.67	8
ATOM	20017	N	VAL	N1447	86.880	88.978	35.343	1.00	27.83	7
ATOM	20018	CA	VAL	N1447	86.973	88.166	36.554	1.00	28.47	6
ATOM	20019	CB	VAL	N1447	85.596	87.736	37.066	1.00	68.41	6
ATOM	20020	CG1	VAL	N1447	85.758	86.848	38.295	1.00	68.91	6
ATOM	20021	CG2	VAL	N1447	84.760	88.950	37.389	1.00	70.01	6
ATOM	20022	C	VAL	N1447	87.736	86.894	36.251	1.00	28.79	6
ATOM	20023	O	VAL	N1447	88.776	86.616	36.847	1.00	28.26	8
ATOM	20024	N	LEU	N1448	87.198	86.132	35.303	1.00	83.43	7
ATOM	20025	CA	LEU	N1448	87.770	84.862	34.883	1.00	83.81	6
ATOM	20026	CB	LEU	N1448	86.862	84.220	33.825	1.00	54.44	6
ATOM	20027	CG	LEU	N1448	86.245	82.852	34.173	1.00	54.53	6
ATOM	20028	CD1	LEU	N1448	85.696	82.867	35.588	1.00	54.24	6
ATOM	20029	CD2	LEU	N1448	85.151	82.498	33.167	1.00	53.83	6
ATOM	20030	C	LEU	N1448	89.195	85.013	34.363	1.00	83.93	6
ATOM	20031	O	LEU	N1448	90.049	84.172	34.625	1.00	84.69	8
ATOM	20032	N	THR	N1449	89.453	86.090	33.632	1.00	40.52	7
ATOM	20033	CA	THR	N1449	90.787	86.346	33.102	1.00	40.49	6
ATOM	20034	CB	THR	N1449	90.837	87.684	32.318	1.00	41.10	6
ATOM	20035	OG1	THR	N1449	90.378	87.478	30.976	1.00	39.05	8
ATOM	20036	CG2	THR	N1449	92.257	88.246	32.293	1.00	40.51	6
ATOM	20037	C	THR	N1449	91.760	86.435	34.270	1.00	41.44	6
ATOM	20038	O	THR	N1449	92.687	85.638	34.384	1.00	40.81	8
ATOM	20039	N	GLU	N1450	91.535	87.422	35.129	1.00	54.30	7

ATOM	20040	CA	GLU	N1450	92.373	87.638	36.296	1.00	56.31	6
ATOM	20041	CB	GLU	N1450	91.700	88.641	37.244	1.00	175.21	6
ATOM	20042	CG	GLU	N1450	92.337	88.764	38.634	1.00	178.88	6
ATOM	20043	CD	GLU	N1450	93.730	89.372	38.611	1.00	182.13	6
ATOM	20044	OE1	GLU	N1450	93.884	90.494	38.081	1.00	184.88	8
ATOM	20045	OE2	GLU	N1450	94.671	88.734	39.132	1.00	183.57	8
ATOM	20046	C	GLU	N1450	92.624	86.328	37.025	1.00	56.59	6
ATOM	20047	O	GLU	N1450	93.732	85.792	36.999	1.00	56.22	8
ATOM	20048	N	ALA	N1451	91.583	85.817	37.671	1.00	49.67	7
ATOM	20049	CA	ALA	N1451	91.684	84.581	38.426	1.00	49.72	6
ATOM	20050	CB	ALA	N1451	90.340	83.899	38.491	1.00	29.23	6
ATOM	20051	C	ALA	N1451	92.702	83.666	37.785	1.00	50.05	6
ATOM	20052	O	ALA	N1451	93.592	83.161	38.452	1.00	51.38	8
ATOM	20053	N	ALA	N1452	92.571	83.464	36.481	1.00	84.61	7
ATOM	20054	CA	ALA	N1452	93.492	82.606	35.754	1.00	84.25	6
ATOM	20055	CB	ALA	N1452	93.231	82.708	34.260	1.00	114.98	6
ATOM	20056	C	ALA	N1452	94.925	83.012	36.068	1.00	83.64	6
ATOM	20057	O	ALA	N1452	95.697	82.212	36.593	1.00	84.27	8
ATOM	20058	N	ILE	N1453	95.273	84.255	35.742	1.00	48.42	7
ATOM	20059	CA	ILE	N1453	96.611	84.778	36.002	1.00	47.40	6
ATOM	20060	CB	ILE	N1453	96.652	86.332	35.894	1.00	56.02	6
ATOM	20061	CG2	ILE	N1453	97.816	86.885	36.664	1.00	56.14	6
ATOM	20062	CG1	ILE	N1453	96.776	86.769	34.434	1.00	56.58	6
ATOM	20063	CD1	ILE	N1453	95.528	86.576	33.607	1.00	58.36	6
ATOM	20064	C	ILE	N1453	96.996	84.361	37.413	1.00	46.66	6
ATOM	20065	O	ILE	N1453	97.756	83.412	37.593	1.00	47.03	8
ATOM	20066	N	ALA	N1454	96.455	85.051	38.414	1.00	37.06	7
ATOM	20067	CA	ALA	N1454	96.768	84.727	39.800	1.00	37.18	6
ATOM	20068	CB	ALA	N1454	95.939	85.585	40.723	1.00	26.87	6
ATOM	20069	C	ALA	N1454	96.521	83.243	40.089	1.00	37.73	6
ATOM	20070	O	ALA	N1454	96.110	82.492	39.205	1.00	37.29	8
ATOM	20071	N	GLY	N1455	96.781	82.818	41.322	1.00	69.50	7
ATOM	20072	CA	GLY	N1455	96.572	81.423	41.669	1.00	70.33	6
ATOM	20073	C	GLY	N1455	95.087	81.159	41.721	1.00	71.07	6
ATOM	20074	O	GLY	N1455	94.533	80.472	40.864	1.00	70.17	8
ATOM	20075	N	LYS	N1456	94.453	81.719	42.746	1.00	94.06	7
ATOM	20076	CA	LYS	N1456	93.018	81.608	42.961	1.00	94.89	6
ATOM	20077	CB	LYS	N1456	92.289	82.055	41.697	1.00	81.13	6
ATOM	20078	CG	LYS	N1456	92.501	83.527	41.368	1.00	82.00	6
ATOM	20079	CD	LYS	N1456	91.904	84.414	42.460	1.00	83.34	6
ATOM	20080	CE	LYS	N1456	91.744	85.859	42.012	1.00	84.06	6
ATOM	20081	NZ	LYS	N1456	90.861	86.609	42.948	1.00	85.20	7
ATOM	20082	C	LYS	N1456	92.524	80.234	43.389	1.00	94.74	6
ATOM	20083	O	LYS	N1456	93.005	79.212	42.915	1.00	95.13	8
ATOM	20084	N	LYS	N1457	91.565	80.228	44.307	1.00	94.29	7
ATOM	20085	CA	LYS	N1457	90.960	78.996	44.806	1.00	95.55	6
ATOM	20086	CB	LYS	N1457	91.834	78.321	45.860	1.00	32.50	6
ATOM	20087	CG	LYS	N1457	93.304	78.176	45.530	1.00	32.29	6
ATOM	20088	CD	LYS	N1457	93.971	77.148	46.469	1.00	31.26	6
ATOM	20089	CE	LYS	N1457	93.641	77.416	47.949	1.00	31.48	6
ATOM	20090	NZ	LYS	N1457	93.455	76.177	48.780	1.00	29.54	7
ATOM	20091	C	LYS	N1457	89.647	79.382	45.470	1.00	97.43	6
ATOM	20092	O	LYS	N1457	89.634	79.723	46.652	1.00	98.45	8
ATOM	20093	N	ASP	N1458	88.549	79.318	44.720	1.00	52.00	7
ATOM	20094	CA	ASP	N1458	87.233	79.687	45.236	1.00	52.36	6
ATOM	20095	CB	ASP	N1458	86.137	78.958	44.464	1.00	130.17	6

ATOM	20096	CG	ASP	N1458	84.754	79.431	44.847	1.00132.81	6
ATOM	20097	OD1	ASP	N1458	84.466	79.507	46.056	1.00134.02	8
ATOM	20098	OD2	ASP	N1458	83.949	79.724	43.945	1.00134.12	8
ATOM	20099	C	ASP	N1458	87.053	79.411	46.721	1.00 52.13	6
ATOM	20100	O	ASP	N1458	86.552	80.255	47.457	1.00 52.31	8
ATOM	20101	N	GLU	N1459	87.458	78.219	47.144	1.00 69.54	7
ATOM	20102	CA	GLU	N1459	87.356	77.785	48.532	1.00 69.25	6
ATOM	20103	CB	GLU	N1459	87.898	78.860	49.476	1.00120.05	6
ATOM	20104	CG	GLU	N1459	88.416	78.297	50.788	1.00122.42	6
ATOM	20105	CD	GLU	N1459	89.429	77.178	50.585	1.00123.16	6
ATOM	20106	OE1	GLU	N1459	90.453	77.415	49.909	1.00123.14	8
ATOM	20107	OE2	GLU	N1459	89.201	76.062	51.103	1.00122.96	6
ATOM	20108	C	GLU	N1459	85.906	77.464	48.848	1.00 67.80	8
ATOM	20109	O	GLU	N1459	85.600	76.769	49.810	1.00 66.51	8
ATOM	20110	N	LEU	N1460	85.023	77.979	48.005	1.00 57.98	7
ATOM	20111	CA	LEU	N1460	83.590	77.755	48.104	1.00 57.91	6
ATOM	20112	CB	LEU	N1460	83.305	76.293	47.742	1.00 28.57	6
ATOM	20113	CG	LEU	N1460	84.031	75.902	46.436	1.00 27.18	6
ATOM	20114	CD1	LEU	N1460	83.756	74.448	46.084	1.00 26.65	6
ATOM	20115	CD2	LEU	N1460	83.593	76.803	45.293	1.00 25.81	6
ATOM	20116	C	LEU	N1460	82.929	78.150	49.428	1.00 58.67	6
ATOM	20117	O	LEU	N1460	82.386	77.313	50.153	1.00 59.22	8
ATOM	20118	N	ILE	N1461	82.966	79.451	49.712	1.00 70.79	7
ATOM	20119	CA	ILE	N1461	82.379	80.025	50.920	1.00 71.83	6
ATOM	20120	CB	ILE	N1461	83.234	81.173	51.457	1.00 81.21	6
ATOM	20121	CG2	ILE	N1461	82.578	81.771	52.683	1.00 81.21	6
ATOM	20122	CG1	ILE	N1461	84.636	80.668	51.778	1.00 81.91	6
ATOM	20123	CD1	ILE	N1461	85.580	81.754	52.247	1.00 82.75	6
ATOM	20124	C	ILE	N1461	81.010	80.609	50.597	1.00 72.68	6
ATOM	20125	O	ILE	N1461	80.031	80.395	51.317	1.00 72.65	8
ATOM	20126	N	GLY	N1462	80.964	81.370	49.513	1.00132.81	7
ATOM	20127	CA	GLY	N1462	79.724	81.987	49.094	1.00133.02	6
ATOM	20128	C	GLY	N1462	78.733	80.982	48.546	1.00133.31	6
ATOM	20129	O	GLY	N1462	79.033	80.240	47.611	1.00133.17	8
ATOM	20130	N	LEU	N1463	77.545	80.963	49.140	1.00 61.88	7
ATOM	20131	CA	LEU	N1463	76.484	80.063	48.726	1.00 60.60	6
ATOM	20132	CB	LEU	N1463	75.191	80.451	49.443	1.00 50.32	6
ATOM	20133	CG	LEU	N1463	75.206	80.335	50.968	1.00 51.25	6
ATOM	20134	CD1	LEU	N1463	73.977	81.009	51.565	1.00 50.41	6
ATOM	20135	CD2	LEU	N1463	75.260	78.871	51.355	1.00 51.51	6
ATOM	20136	C	LEU	N1463	76.270	80.080	47.206	1.00 59.77	6
ATOM	20137	O	LEU	N1463	76.499	79.078	46.527	1.00 60.49	8
ATOM	20138	N	LYS	N1464	75.846	81.220	46.669	1.00 72	

ATOM	20152	OE1	GLU	N1465	81.920	81.284	47.269	1.00137.37	8
ATOM	20153	OE2	GLU	N1465	82.137	83.228	46.267	1.00138.46	8
ATOM	20154	C	GLU	N1465	78.883	78.707	44.153	1.00 67.73	6
ATOM	20155	O	GLU	N1465	78.694	78.123	43.087	1.00 68.58	8
ATOM	20156	N	ASN	N1466	78.933	78.101	45.326	1.00 43.12	7
ATOM	20157	CA	ASN	N1466	78.765	76.672	45.482	1.00 39.82	6
ATOM	20158	CB	ASN	N1466	78.546	76.371	46.971	1.00 50.98	6
ATOM	20159	CG	ASN	N1466	79.244	75.117	47.434	1.00 53.23	6
ATOM	20160	OD1	ASN	N1466	78.650	74.040	47.474	1.00 53.76	8
ATOM	20161	ND2	ASN	N1466	80.515	75.251	47.797	1.00 54.90	7
ATOM	20162	C	ASN	N1466	77.527	76.307	44.662	1.00 37.12	6
ATOM	20163	O	ASN	N1466	77.410	75.190	44.148	1.00 36.93	8
ATOM	20164	N	VAL	N1467	76.593	77.247	44.543	1.00 24.65	7
ATOM	20165	CA	VAL	N1467	75.407	76.952	43.761	1.00 21.85	6
ATOM	20166	CB	VAL	N1467	74.289	78.074	43.883	1.00 15.60	6
ATOM	20167	CG1	VAL	N1467	73.494	78.226	42.570	1.00 13.99	6
ATOM	20168	CG2	VAL	N1467	73.302	77.693	44.989	1.00 14.47	6
ATOM	20169	C	VAL	N1467	75.895	76.796	42.335	1.00 21.30	6
ATOM	20170	O	VAL	N1467	75.772	75.730	41.759	1.00 20.21	8
ATOM	20171	N	ILE	N1468	76.488	77.847	41.783	1.00 28.96	7
ATOM	20172	CA	ILE	N1468	76.984	77.816	40.413	1.00 28.15	6
ATOM	20173	CB	ILE	N1468	78.039	78.901	40.221	1.00 28.50	6
ATOM	20174	CG2	ILE	N1468	78.665	78.784	38.840	1.00 28.28	6
ATOM	20175	CG1	ILE	N1468	77.386	80.265	40.454	1.00 28.03	6
ATOM	20176	CD1	ILE	N1468	78.363	81.388	40.570	1.00 27.94	6
ATOM	20177	C	ILE	N1468	77.546	76.447	40.020	1.00 28.16	6
ATOM	20178	O	ILE	N1468	77.203	75.911	38.969	1.00 27.93	8
ATOM	20179	N	LEU	N1469	78.400	75.879	40.866	1.00 41.09	7
ATOM	20180	CA	LEU	N1469	78.958	74.557	40.588	1.00 41.71	6
ATOM	20181	CB	LEU	N1469	80.166	74.254	41.478	1.00 40.28	6
ATOM	20182	CG	LEU	N1469	81.322	75.226	41.701	1.00 40.00	6
ATOM	20183	CD1	LEU	N1469	82.281	74.557	42.666	1.00 39.89	6
ATOM	20184	CD2	LEU	N1469	82.032	75.575	40.407	1.00 39.68	6
ATOM	20185	C	LEU	N1469	77.877	73.529	40.911	1.00 42.41	6
ATOM	20186	O	LEU	N1469	78.174	72.357	41.100	1.00 43.44	8
ATOM	20187	N	GLY	N1470	76.628	73.975	40.992	1.00 32.51	7
ATOM	20188	CA	GLY	N1470	75.527	73.080	41.316	1.00 31.96	6
ATOM	20189	C	GLY	N1470	75.752	72.287	42.594	1.00 31.97	6
ATOM	20190	O	GLY	N1470	74.978	71.372	42.913	1.00 30.88	8
ATOM	20191	N	ARG	N1471	76.801	72.653	43.332	1.00 71.36	7
ATOM	20192	CA	ARG	N1471	77.159	71.956	44.561	1.00 72.29	6
ATOM	20193	CB	ARG	N1471	78.442	72.535	45.166	1.00 73.54	6
ATOM	20194	CG	ARG	N1471	79.732	71.877	44.668	1.00 77.78	6
ATOM	20195	CD	ARG	N1471	80.914	72.219	45.583	1.00 81.38	6
ATOM	20196	NE	ARG	N1471	80.775	71.640	46.923	1.00 85.00	7
ATOM	20197	CZ	ARG	N1471	81.475	72.026	47.992	1.00 86.24	6
ATOM	20198	NH1	ARG	N1471	82.369	72.999	47.894	1.00 86.86	7
ATOM	20199	NH2	ARG	N1471	81.282	71.444	49.168	1.00 86.50	7
ATOM	20200	C	ARG	N1471	76.082	71.871	45.629	1.00 70.82	6
ATOM	20201	O	ARG	N1471	74.929	72.247	45.406	1.00 70.77	8
ATOM	20202	N	LEU	N1472	76.490	71.377	46.794	1.00 48.63	7
ATOM	20203	CA	LEU	N1472	75.598	71.150	47.920	1.00 45.59	6
ATOM	20204	CB	LEU	N1472	75.887	69.763	48.483	1.00 33.60	6
ATOM	20205	CG	LEU	N1472	75.373	69.335	49.852	1.00 32.93	6
ATOM	20206	CD1	LEU	N1472	73.873	69.393	49.905	1.00 33.13	6
ATOM	20207	CD2	LEU	N1472	75.852	67.924	50.115	1.00 33.31	6

ATOM	20208	C	LEU	N1472	75.630	72.163	49.047	1.00	43.50	6
ATOM	20209	O	LEU	N1472	76.224	71.901	50.086	1.00	42.73	8
ATOM	20210	N	ILE	N1473	74.978	73.304	48.838	1.00	40.42	7
ATOM	20211	CA	ILE	N1473	74.878	74.383	49.820	1.00	40.08	6
ATOM	20212	CB	ILE	N1473	73.407	74.622	50.203	1.00	25.68	6
ATOM	20213	CG2	ILE	N1473	73.314	75.499	51.428	1.00	24.29	6
ATOM	20214	CG1	ILE	N1473	72.670	75.293	49.054	1.00	26.68	6
ATOM	20215	CD1	ILE	N1473	73.169	76.692	48.733	1.00	27.55	6
ATOM	20216	C	ILE	N1473	75.653	74.208	51.128	1.00	41.31	6
ATOM	20217	O	ILE	N1473	75.399	73.281	51.903	1.00	42.70	8
ATOM	20218	N	PRO	N1474	76.609	75.105	51.401	1.00	63.72	7
ATOM	20219	CD	PRO	N1474	77.206	76.163	50.569	1.00	14.38	6
ATOM	20220	CA	PRO	N1474	77.336	74.937	52.660	1.00	63.88	6
ATOM	20221	CB	PRO	N1474	78.427	75.990	52.583	1.00	13.87	6
ATOM	20222	CG	PRO	N1474	77.891	77.001	51.597	1.00	13.87	6
ATOM	20223	C	PRO	N1474	76.417	75.142	53.853	1.00	65.05	6
ATOM	20224	O	PRO	N1474	76.455	74.372	54.797	1.00	65.63	8
ATOM	20225	N	ALA	N1475	75.584	76.175	53.809	1.00	31.81	7
ATOM	20226	CA	ALA	N1475	74.645	76.454	54.898	1.00	32.54	6
ATOM	20227	CB	ALA	N1475	73.958	77.792	54.651	1.00	124.85	6
ATOM	20228	C	ALA	N1475	73.589	75.348	55.065	1.00	31.96	6
ATOM	20229	O	ALA	N1475	73.535	74.400	54.281	1.00	31.04	8
ATOM	20230	N	GLY	N1476	72.755	75.474	56.093	1.00	41.35	7
ATOM	20231	CA	GLY	N1476	71.713	74.488	56.337	1.00	42.52	6
ATOM	20232	C	GLY	N1476	72.203	73.068	56.545	1.00	42.98	6
ATOM	20233	O	GLY	N1476	73.299	72.861	57.057	1.00	42.28	8
ATOM	20234	N	THR	N1477	71.397	72.081	56.165	1.00	41.50	7
ATOM	20235	CA	THR	N1477	71.813	70.693	56.313	1.00	42.80	6
ATOM	20236	CB	THR	N1477	70.900	69.719	55.538	1.00	44.03	6
ATOM	20237	OG1	THR	N1477	70.315	70.388	54.417	1.00	42.93	8
ATOM	20238	CG2	THR	N1477	69.821	69.182	56.428	1.00	44.34	6
ATOM	20239	C	THR	N1477	73.220	70.529	55.761	1.00	44.91	6
ATOM	20240	O	THR	N1477	73.857	69.502	55.977	1.00	45.66	8
ATOM	20241	N	GLY	N1478	73.693	71.546	55.045	1.00	57.56	7
ATOM	20242	CA	GLY	N1478	75.016	71.493	54.458	1.00	60.51	6
ATOM	20243	C	GLY	N1478	76.146	71.867	55.396	1.00	63.35	6
ATOM	20244	O	GLY	N1478	77.295	71.519	55.134	1.00	64.75	8
ATOM	20245	N	SER	N1479	75.842	72.573	56.482	1.00	38.88	7
ATOM	20246	CA	SER	N1479	76.881	72.984	57.426	1.00	40.64	6
ATOM	20247	CB	SER	N1479	76.273	73.723	58.623	1.00	103.40	6
ATOM	20248	OG	SER	N1479	76.032	75.088	58.327	1.00	106.29	8
ATOM	20249	C	SER	N1479	77.695	71.809	57.933	1.00	40.61	6
ATOM	20250	O	SER	N1479	77.139	70.843	58.454	1.00	40.38	8
ATOM	20251	N	ASP	N1480	79.012	71.893	57.780	1.00	35.78	7
ATOM	20252	CA	ASP	N1480	79.881	70.825	58.248	1.00	38.88	6
ATOM	20253	CB	ASP	N1480	81.345	71.232	58.137	1.00	103.63	6
ATOM	20254	CG	ASP	N1480	81.699	71.722	56.761	1.00	107.23	6
ATOM	20255	OD1	ASP	N1480	81.244	71.093	55.779	1.00	108.03	8
ATOM	20256	OD2	ASP	N1480	82.436	72.728	56.661	1.00	108.79	8
ATOM	20257	C	ASP	N1480	79.542	70.545	59.703	1.00	39.79	6
ATOM	20258	O	ASP	N1480	79.769	69.439	60.210	1.00	40.17	8
ATOM	20259	N	PHE	N1481	78.993	71.549	60.380	1.00	40.34	7
ATOM	20260	CA	PHE	N1481	78.626	71.366	61.763	1.00	41.24	6
ATOM	20261	CB	PHE	N1481	78.029	72.619	62.371	1.00	47.30	6
ATOM	20262	CG	PHE	N1481	77.659	72.437	63.796	1.00	47.35	6
ATOM	20263	CD1	PHE	N1481	78.645	72.292	64.759	1.00	47.07	6



ATOM	20264	CD2	PHE	N1481	76.335	72.264	64.161	1.00	47.62	6
ATOM	20265	CE1	PHE	N1481	78.320	71.968	66.065	1.00	47.25	6
ATOM	20266	CE2	PHE	N1481	75.995	71.939	65.462	1.00	47.72	6
ATOM	20267	CZ	PHE	N1481	76.989	71.786	66.420	1.00	47.42	6
ATOM	20268	C	PHE	N1481	77.594	70.268	61.802	1.00	43.00	6
ATOM	20269	O	PHE	N1481	77.103	69.884	62.867	1.00	43.61	8
ATOM	20270	N	VAL	N1482	77.246	69.777	60.620	1.00	18.61	7
ATOM	20271	CA	VAL	N1482	76.295	68.684	60.508	1.00	20.44	6
ATOM	20272	CB	VAL	N1482	74.867	69.188	60.406	1.00	13.87	6
ATOM	20273	CG1	VAL	N1482	74.013	68.067	59.914	1.00	14.05	6
ATOM	20274	CG2	VAL	N1482	74.373	69.672	61.791	1.00	13.87	6
ATOM	20275	C	VAL	N1482	76.603	67.803	59.298	1.00	22.04	6
ATOM	20276	O	VAL	N1482	76.646	68.282	58.163	1.00	20.60	8
ATOM	20277	N	ARG	N1483	76.817	66.518	59.572	1.00	84.77	7
ATOM	20278	CA	ARG	N1483	77.146	65.498	58.573	1.00	88.49	6
ATOM	20279	CB	ARG	N1483	78.210	66.009	57.595	1.00	128.16	6
ATOM	20280	CG	ARG	N1483	77.691	66.726	56.344	1.00	131.30	6
ATOM	20281	CD	ARG	N1483	78.849	67.421	55.628	1.00	134.10	6
ATOM	20282	NE	ARG	N1483	78.475	68.033	54.355	1.00	134.95	7
ATOM	20283	CZ	ARG	N1483	79.325	68.698	53.577	1.00	134.62	6
ATOM	20284	NH1	ARG	N1483	80.591	68.834	53.949	1.00	133.57	7
ATOM	20285	NH2	ARG	N1483	78.917	69.220	52.426	1.00	134.01	7
ATOM	20286	C	ARG	N1483	77.717	64.287	59.331	1.00	89.29	6
ATOM	20287	O	ARG	N1483	78.645	63.624	58.861	1.00	89.58	8
ATOM	20288	N	PHE	N1484	77.153	64.010	60.503	1.00	83.42	7
ATOM	20289	CA	PHE	N1484	77.595	62.911	61.355	1.00	84.53	6
ATOM	20290	CB	PHE	N1484	77.049	63.105	62.764	1.00	140.17	6
ATOM	20291	CG	PHE	N1484	75.823	63.938	62.801	1.00	142.07	6
ATOM	20292	CD1	PHE	N1484	74.663	63.506	62.182	1.00	143.59	6
ATOM	20293	CD2	PHE	N1484	75.847	65.196	63.383	1.00	142.71	6
ATOM	20294	CE1	PHE	N1484	73.552	64.323	62.122	1.00	144.75	6
ATOM	20295	CE2	PHE	N1484	74.744	66.016	63.328	1.00	144.32	6
ATOM	20296	CZ	PHE	N1484	73.591	65.580	62.700	1.00	144.79	6
ATOM	20297	C	PHE	N1484	77.219	61.529	60.880	1.00	85.03	6
ATOM	20298	O	PHE	N1484	76.295	61.355	60.082	1.00	85.54	8
ATOM	20299	N	THR	N1485	77.957	60.549	61.399	1.00	134.51	7
ATOM	20300	CA	THR	N1485	77.750	59.139	61.091	1.00	134.23	6
ATOM	20301	CB	THR	N1485	78.650	58.249	61.982	1.00	93.85	6
ATOM	20302	OG1	THR	N1485	80.028	58.545	61.719	1.00	93.85	8
ATOM	20303	CG2	THR	N1485	78.402	56.786	61.697	1.00	94.16	6
ATOM	20304	C	THR	N1485	76.285	58.871	61.391	1.00	134.08	6
ATOM	20305	O	THR	N1485	75.561	58.296	60.580	1.00	134.47	8
ATOM	20306	N	ALA	N1486	75.872	59.309	62.574	1.00	66.77	7
ATOM	20307	CA	ALA	N1486	74.506	59.197	63.043	1.00	66.38	6
ATOM	20308	CB	ALA	N1486	73.726	60.410	62.571	1.00	114.27	6
ATOM	20309	C	ALA	N1486	73.745	57.927	62.686	1.00	66.41	6
ATOM	20310	O	ALA	N1486	72.555	57.988	62.368	1.00	66.19	8
ATOM	20311	N	VAL	N1487	74.405	56.774	62.738	1.00	59.05	7
ATOM	20312	CA	VAL	N1487	73.720	55.516	62.421	1.00	59.37	6
ATOM	20313	CB	VAL	N1487	73.694	55.049	60.954	1.00	98.48	6
ATOM	20314	CG1	VAL	N1487	73.064	53.895	60.578	1.00	98.08	6
ATOM	20315	CG2	VAL	N1487	73.784	56.195	59.999	1.00	98.69	6
ATOM	20316	C	VAL	N1487	74.106	54.384	63.373	1.00	59.66	6
ATOM	20317	O	VAL	N1487	75.019	53.611	63.113	1.00	59.03	8
ATOM	20318	N	ALA	N1488	73.411	54.305	64.491	1.00	68.33	7
ATOM	20319	CA	ALA	N1488	73.665	53.252	65.444	1.00	69.99	6

ATOM	20320	CB	ALA N1488	74.141	53.834	66.752	1.00	90.26	6
ATOM	20321	C	ALA N1488	72.307	52.589	65.606	1.00	71.13	6
ATOM	20322	O	ALA N1488	71.356	52.958	64.919	1.00	71.37	8
ATOM	20323	N	ALA N1489	72.206	51.610	66.496	1.00	79.81	7
ATOM	20324	CA	ALA N1489	70.940	50.919	66.721	1.00	80.53	6
ATOM	20325	CB	ALA N1489	70.651	49.953	65.553	1.00	13.87	6
ATOM	20326	C	ALA N1489	71.014	50.155	68.036	1.00	81.77	6
ATOM	20327	O	ALA N1489	70.143	49.342	68.339	1.00	82.54	8
ATOM	20328	N	ALA N1490	72.053	50.440	68.819	1.00	140.13	7
ATOM	20329	CA	ALA N1490	72.285	49.762	70.093	1.00	141.33	6
ATOM	20330	CB	ALA N1490	71.019	49.773	70.954	1.00	60.30	6
ATOM	20331	C	ALA N1490	72.691	48.331	69.762	1.00	142.29	6
ATOM	20332	O	ALA N1490	73.817	47.918	70.023	1.00	142.26	8
ATOM	20333	N	ALA N1491	71.765	47.587	69.168	1.00	183.88	7
ATOM	20334	CA	ALA N1491	72.023	46.212	68.770	1.00	185.16	6
ATOM	20335	CB	ALA N1491	70.736	45.564	68.292	1.00	69.81	6
ATOM	20336	C	ALA N1491	73.058	46.227	67.647	1.00	186.29	6
ATOM	20337	O	ALA N1491	74.142	45.654	67.775	1.00	186.59	8
ATOM	20338	N	ALA N1492	72.714	46.894	66.548	1.00	98.54	7
ATOM	20339	CA	ALA N1492	73.608	47.007	65.403	1.00	99.18	6
ATOM	20340	CB	ALA N1492	72.869	47.617	64.221	1.00	79.26	6
ATOM	20341	C	ALA N1492	74.803	47.872	65.779	1.00	100.00	6
ATOM	20342	O	ALA N1492	75.558	48.522	64.919	1.00	100.52	8
ATOM	20343	N	ALA N1493	74.953	48.109	67.077	1.00	152.21	7
ATOM	20344	CA	ALA N1493	76.053	48.903	67.602	1.00	153.89	6
ATOM	20345	CB	ALA N1493	75.529	49.935	68.591	1.00	143.28	6
ATOM	20346	C	ALA N1493	77.017	47.951	68.293	1.00	154.75	6
ATOM	20347	O	ALA N1493	78.227	48.174	68.319	1.00	155.15	8
ATOM	20348	N	ALA N1494	76.462	46.884	68.822	1.00	168.39	7
ATOM	20349	CA	ALA N1494	77.261	45.877	69.534	1.00	168.85	6
ATOM	20350	CB	ALA N1494	76.362	44.928	70.302	1.00	169.46	6
ATOM	20351	C	ALA N1494	78.032	45.112	68.471	1.00	169.44	8
ATOM	20352	O	ALA N1494	79.202	44.777	68.653	1.00	170.15	8
ATOM	20353	N	ALA N1495	77.360	44.847	67.355	1.00	107.85	7
ATOM	20354	CA	ALA N1495	77.957	44.114	66.245	1.00	108.59	6
ATOM	20355	CB	ALA N1495	76.928	43.941	65.126	1.00	99.66	6
ATOM	20356	C	ALA N1495	79.218	44.790	65.702	1.00	109.01	6
ATOM	20357	O	ALA N1495	80.188	44.122	65.343	1.00	109.17	8
ATOM	20358	N	ALA N1496	79.202	46.115	65.646	1.00	117.72	7
ATOM	20359	CA	ALA N1496	80.348	46.856	65.142	1.00	118.58	6
ATOM	20360	CB	ALA N1496	79.910	48.237	64.669	1.00	88.39	6
ATOM	20361	C	ALA N1496	81.429	46.985	66.208	1.00	119.53	6
ATOM	20362	O	ALA N1496	82.460	47.617	65.982	1.00	119.91	8
ATOM	20363	N	ALA N1497	81.195	46.383	67.369	1.00	181.59	7
ATOM	20364	CA	ALA N1497	82.166	46.441	68.456	1.00	182.69	6
ATOM	20365	CB	ALA N1497	81.580	47.196	69.641	1.00	142.39	6
ATOM	20366	C	ALA N1497	82.609	45.046	68.887	1.00	82.80	6
ATOM	20367	O	ALA N1497	83.823	44.770	68.794	1.00	183.54	8
ATOM	20368	OXT	ALA N1497	81.746	44.248	69.313	1.00	143.12	8
ATOM	20369	CB	ALA H 1	49.035	69.727	66.035	1.00	112.96	6
ATOM	20370	C	ALA H 1	49.981	69.624	63.746	1.00	72.10	6
ATOM	20371	O	ALA H 1	50.157	70.628	63.051	1.00	71.61	8
ATOM	20372	N	ALA H 1	48.217	68.062	64.422	1.00	71.93	7
ATOM	20373	CA	ALA H 1	48.724	69.457	64.581	1.00	71.95	6
ATOM	20374	N	ALA H 2	50.850	68.621	63.833	1.00	134.16	7
ATOM	20375	CA	ALA H 2	52.107	68.587	63.096	1.00	133.75	6

ATOM	20376	CB	ALA	H	2	53.179	69.381	63.841	1.00	71.36	6
ATOM	20377	C	ALA	H	2	52.544	67.128	62.915	1.00	133.97	6
ATOM	20378	O	ALA	H	2	51.817	66.320	62.332	1.00	134.70	8
ATOM	20379	N	GLU	H	3	53.721	66.789	63.427	1.00	105.72	7
ATOM	20380	CA	GLU	H	3	54.237	65.432	63.302	1.00	104.48	6
ATOM	20381	CB	GLU	H	3	55.663	65.487	62.749	1.00	120.78	6
ATOM	20382	CG	GLU	H	3	55.797	66.283	61.455	1.00	123.15	6
ATOM	20383	CD	GLU	H	3	55.151	65.605	60.257	1.00	124.33	6
ATOM	20384	OE1	GLU	H	3	53.959	65.229	60.340	1.00	125.09	8
ATOM	20385	OE2	GLU	H	3	55.842	65.461	59.224	1.00	125.28	8
ATOM	20386	C	GLU	H	3	54.208	64.701	64.649	1.00	102.31	6
ATOM	20387	O	GLU	H	3	53.635	65.195	65.620	1.00	102.17	8
ATOM	20388	N	PRO	H	4	54.801	63.498	64.717	1.00	90.20	7
ATOM	20389	CD	PRO	H	4	55.167	62.633	63.579	1.00	84.46	6
ATOM	20390	CA	PRO	H	4	54.826	62.729	65.966	1.00	88.65	6
ATOM	20391	CB	PRO	H	4	55.444	61.404	65.533	1.00	83.40	6
ATOM	20392	CG	PRO	H	4	54.938	61.256	64.138	1.00	83.61	6
ATOM	20393	C	PRO	H	4	55.617	63.385	67.100	1.00	87.20	6
ATOM	20394	O	PRO	H	4	56.449	62.732	67.733	1.00	87.10	8
ATOM	20395	N	GLY	H	5	55.356	64.671	67.342	1.00	88.38	7
ATOM	20396	CA	GLY	H	5	56.030	65.409	68.404	1.00	86.20	6
ATOM	20397	C	GLY	H	5	57.320	66.138	68.045	1.00	84.54	6
ATOM	20398	O	GLY	H	5	58.320	65.977	68.742	1.00	84.56	8
ATOM	20399	N	ILE	H	6	57.297	66.955	66.988	1.00	52.67	7
ATOM	20400	CA	ILE	H	6	58.481	67.693	66.536	1.00	50.67	6
ATOM	20401	CB	ILE	H	6	58.143	68.779	65.513	1.00	61.49	6
ATOM	20402	CG2	ILE	H	6	59.427	69.435	65.030	1.00	60.62	6
ATOM	20403	CG1	ILE	H	6	57.418	68.176	64.317	1.00	62.92	6
ATOM	20404	CD1	ILE	H	6	58.336	67.421	63.372	1.00	64.69	6
ATOM	20405	C	ILE	H	6	59.199	68.396	67.659	1.00	48.98	6
ATOM	20406	O	ILE	H	6	60.416	68.305	67.781	1.00	49.28	8
ATOM	20407	N	ASP	H	7	58.442	69.125	68.467	1.00	44.73	7
ATOM	20408	CA	ASP	H	7	59.032	69.855	69.576	1.00	43.88	6
ATOM	20409	CB	ASP	H	7	57.935	70.446	70.472	1.00	93.66	6
ATOM	20410	CG	ASP	H	7	57.368	71.754	69.923	1.00	96.14	6
ATOM	20411	OD1	ASP	H	7	58.089	72.775	69.926	1.00	97.83	8
ATOM	20412	OD2	ASP	H	7	56.202	71.766	69.483	1.00	96.45	8
ATOM	20413	C	ASP	H	7	59.927	68.929	70.371	1.00	41.56	6
ATOM	20414	O	ASP	H	7	61.016	69.308	70.783	1.00	40.75	8
ATOM	20415	N	LYS	H	8	59.466	67.701	70.558	1.00	30.16	7
ATOM	20416	CA	LYS	H	8</						

ATOM	20432	N	PHE	H	10	63.231	68.366	68.309	1.00	58.43	7
ATOM	20433	CA	PHE	H	10	64.017	69.589	68.326	1.00	57.27	6
ATOM	20434	CB	PHE	H	10	63.131	70.775	67.984	1.00	26.49	6
ATOM	20435	CG	PHE	H	10	62.910	70.956	66.522	1.00	24.11	6
ATOM	20436	CD1	PHE	H	10	61.743	71.532	66.057	1.00	23.18	6
ATOM	20437	CD2	PHE	H	10	63.891	70.596	65.608	1.00	24.17	6
ATOM	20438	CE1	PHE	H	10	61.555	71.750	64.711	1.00	23.51	6
ATOM	20439	CE2	PHE	H	10	63.710	70.812	64.255	1.00	24.06	6
ATOM	20440	CZ	PHE	H	10	62.540	71.391	63.806	1.00	23.71	6
ATOM	20441	C	PHE	H	10	64.658	69.814	69.674	1.00	58.57	6
ATOM	20442	O	PHE	H	10	65.482	70.706	69.835	1.00	60.31	8
ATOM	20443	N	GLY	H	11	64.259	69.013	70.651	1.00	54.15	7
ATOM	20444	CA	GLY	H	11	64.834	69.139	71.973	1.00	55.56	6
ATOM	20445	C	GLY	H	11	66.113	68.342	71.980	1.00	56.47	6
ATOM	20446	O	GLY	H	11	67.191	68.874	72.245	1.00	55.94	8
ATOM	20447	N	MET	H	12	65.987	67.058	71.664	1.00	87.20	7
ATOM	20448	CA	MET	H	12	67.129	66.159	71.620	1.00	88.91	6
ATOM	20449	CB	MET	H	12	66.763	64.885	70.857	1.00	96.90	6
ATOM	20450	CG	MET	H	12	65.521	64.194	71.372	1.00	98.92	6
ATOM	20451	SD	MET	H	12	65.249	62.631	70.536	1.00	102.56	16
ATOM	20452	CE	MET	H	12	64.730	63.194	68.925	1.00	100.52	6
ATOM	20453	C	MET	H	12	68.332	66.820	70.953	1.00	89.24	6
ATOM	20454	O	MET	H	12	69.283	67.229	71.627	1.00	89.46	8
ATOM	20455	N	VAL	H	13	68.283	66.926	69.627	1.00	55.36	7
ATOM	20456	CA	VAL	H	13	69.376	67.528	68.871	1.00	55.34	6
ATOM	20457	CB	VAL	H	13	69.072	67.517	67.349	1.00	87.88	6
ATOM	20458	CG1	VAL	H	13	69.008	66.091	66.838	1.00	87.79	6
ATOM	20459	CG2	VAL	H	13	67.760	68.203	67.081	1.00	88.70	6
ATOM	20460	C	VAL	H	13	69.657	68.964	69.329	1.00	54.34	6
ATOM	20461	O	VAL	H	13	68.882	69.545	70.097	1.00	53.82	8
ATOM	20462	N	ASP	H	14	70.778	69.521	68.871	1.00	80.64	7
ATOM	20463	CA	ASP	H	14	71.163	70.887	69.220	1.00	80.29	6
ATOM	20464	CB	ASP	H	14	72.656	70.970	69.511	1.00	82.79	6
ATOM	20465	CG	ASP	H	14	73.494	70.843	68.261	1.00	84.35	6
ATOM	20466	OD1	ASP	H	14	73.491	69.757	67.649	1.00	85.24	8
ATOM	20467	OD2	ASP	H	14	74.141	71.837	67.879	1.00	84.99	8
ATOM	20468	C	ASP	H	14	70.851	71.784	68.037	1.00	78.85	6
ATOM	20469	O	ASP	H	14	70.039	72.700	68.140	1.00	79.58	8
ATOM	20470	N	SER	H	15	71.510	71.508	66.915	1.00	40.97	7
ATOM	20471	CA	SER	H	15	71.317	72.266	65.689	1.00	37.59	6
ATOM	20472	CB	SER	H	15	72.552	72.139	64.794	1.00	34.50	6
ATOM	20473	OG	SER	H	15	72.529	73.107	63.756	1.00	31.69	8
ATOM	20474	C	SER	H	15	70.089	71.724	64.961	1.00	36.60	6
ATOM	20475	O	SER	H	15	70.110	70.608	64.458	1.00	36.72	8
ATOM	20476	N	LYS	H	16	69.020	72.515	64.931	1.00	45.79	7
ATOM	20477	CA	LYS	H	16	67.771	72.145	64.268	1.00	45.58	6
ATOM	20478	CB	LYS	H	16	66.979	73.409	63.928	1.00	60.78	6
ATOM	20479	CG	LYS	H	16	65.704	73.187	63.138	1.00	60.97	6
ATOM	20480	CD	LYS	H	16	65.193	74.496	62.524	1.00	61.73	6
ATOM	20481	CE	LYS	H	16	63.842	74.310	61.830	1.00	62.66	6
ATOM	20482	NZ	LYS	H	16	63.377	75.511	61.077	1.00	62.70	7
ATOM	20483	C	LYS	H	16	67.993	71.325	62.995	1.00	45.74	6
ATOM	20484	O	LYS	H	16	67.141	70.530	62.613	1.00	45.21	8
ATOM	20485	N	TYR	H	17	69.136	71.510	62.343	1.00	27.19	7
ATOM	20486	CA	TYR	H	17	69.438	70.778	61.113	1.00	27.85	6
ATOM	20487	CB	TYR	H	17	70.414	71.575	60.246	1.00	54.79	6

ATOM	20488	CG	TYR	H	17	69.883	72.940	59.911	1.00	53.62	6
ATOM	20489	CD1	TYR	H	17	69.640	73.858	60.915	1.00	52.27	6
ATOM	20490	CE1	TYR	H	17	69.090	75.079	60.641	1.00	51.90	6
ATOM	20491	CD2	TYR	H	17	69.563	73.289	58.607	1.00	53.37	6
ATOM	20492	CE2	TYR	H	17	69.008	74.517	58.320	1.00	52.95	6
ATOM	20493	CZ	TYR	H	17	68.774	75.408	59.349	1.00	52.81	6
ATOM	20494	OH	TYR	H	17	68.218	76.638	59.111	1.00	53.12	8
ATOM	20495	C	TYR	H	17	70.003	69.407	61.391	1.00	28.58	6
ATOM	20496	O	TYR	H	17	70.093	68.576	60.497	1.00	28.23	8
ATOM	20497	N	ARG	H	18	70.397	69.191	62.638	1.00	55.84	7
ATOM	20498	CA	ARG	H	18	70.935	67.910	63.060	1.00	56.85	6
ATOM	20499	CB	ARG	H	18	71.381	67.973	64.532	1.00	86.52	6
ATOM	20500	CG	ARG	H	18	71.976	66.678	65.097	1.00	87.17	6
ATOM	20501	CD	ARG	H	18	73.125	66.954	66.074	1.00	89.03	6
ATOM	20502	NE	ARG	H	18	74.182	67.758	65.451	1.00	91.03	7
ATOM	20503	CZ	ARG	H	18	75.372	68.007	65.994	1.00	90.39	6
ATOM	20504	NH1	ARG	H	18	75.678	67.516	67.184	1.00	90.95	7
ATOM	20505	NH2	ARG	H	18	76.260	68.749	65.345	1.00	88.61	7
ATOM	20506	C	ARG	H	18	69.790	66.924	62.884	1.00	56.72	6
ATOM	20507	O	ARG	H	18	69.828	66.074	61.993	1.00	57.05	8
ATOM	20508	N	LEU	H	19	68.765	67.062	63.722	1.00	68.32	7
ATOM	20509	CA	LEU	H	19	67.592	66.197	63.654	1.00	68.14	6
ATOM	20510	CB	LEU	H	19	66.440	66.832	64.429	1.00	47.50	6
ATOM	20511	CG	LEU	H	19	65.045	66.297	64.121	1.00	47.31	6
ATOM	20512	CD1	LEU	H	19	64.966	64.837	64.491	1.00	47.18	6
ATOM	20513	CD2	LEU	H	19	64.022	67.104	64.884	1.00	48.01	6
ATOM	20514	C	LEU	H	19	67.160	65.945	62.210	1.00	67.80	6
ATOM	20515	O	LEU	H	19	66.854	64.814	61.840	1.00	68.35	8
ATOM	20516	N	THR	H	20	67.132	67.002	61.402	1.00	51.77	7
ATOM	20517	CA	THR	H	20	66.751	66.877	60.000	1.00	51.37	6
ATOM	20518	CB	THR	H	20	66.867	68.228	59.250	1.00	52.73	6
ATOM	20519	OG1	THR	H	20	65.932	69.165	59.796	1.00	53.84	8
ATOM	20520	CG2	THR	H	20	66.577	68.047	57.769	1.00	52.85	6
ATOM	20521	C	THR	H	20	67.672	65.876	59.318	1.00	49.82	6
ATOM	20522	O	THR	H	20	67.218	64.974	58.623	1.00	49.18	8
ATOM	20523	N	VAL	H	21	68.970	66.044	59.536	1.00	56.67	7
ATOM	20524	CA	VAL	H	21	69.989	65.182	58.950	1.00	56.33	6
ATOM	20525	CB	VAL	H	21	71.363	65.733	59.252	1.00	47.80	6
ATOM	20526	CG1	VAL	H	21	72.431	64.728	58.857	1.00	46.78	6
ATOM	20527	CG2	VAL	H	21	71.526	67.049	58.514	1.00	49.31	6

ATOM	20544	N	ALA	H	24	66.941	61.922	58.418	1.00	25.22	7
ATOM	20545	CA	ALA	H	24	67.086	61.712	56.978	1.00	27.09	6
ATOM	20546	CB	ALA	H	24	67.767	62.901	56.350	1.00	29.93	6
ATOM	20547	C	ALA	H	24	67.854	60.463	56.623	1.00	28.67	6
ATOM	20548	O	ALA	H	24	67.341	59.595	55.919	1.00	28.38	8
ATOM	20549	N	LYS	H	25	69.097	60.398	57.097	1.00	59.88	7
ATOM	20550	CA	LYS	H	25	69.971	59.264	56.833	1.00	62.39	6
ATOM	20551	CB	LYS	H	25	71.355	59.504	57.434	1.00	104.23	6
ATOM	20552	CG	LYS	H	25	72.443	58.609	56.854	1.00	107.91	6
ATOM	20553	CD	LYS	H	25	72.234	57.130	57.207	1.00	111.99	6
ATOM	20554	CE	LYS	H	25	73.392	56.246	56.721	1.00	114.74	6
ATOM	20555	NZ	LYS	H	25	73.418	54.895	57.369	1.00	116.09	7
ATOM	20556	C	LYS	H	25	69.335	58.050	57.462	1.00	63.18	6
ATOM	20557	O	LYS	H	25	69.321	56.972	56.883	1.00	62.18	8
ATOM	20558	N	ARG	H	26	68.799	58.240	58.659	1.00	53.40	7
ATOM	20559	CA	ARG	H	26	68.143	57.157	59.377	1.00	54.97	6
ATOM	20560	CB	ARG	H	26	67.382	57.713	60.589	1.00	50.83	6
ATOM	20561	CG	ARG	H	26	66.674	56.645	61.389	1.00	48.91	6
ATOM	20562	CD	ARG	H	26	67.586	55.454	61.584	1.00	46.66	6
ATOM	20563	NE	ARG	H	26	66.826	54.237	61.809	1.00	45.56	7
ATOM	20564	CZ	ARG	H	26	67.335	53.023	61.689	1.00	46.00	6
ATOM	20565	NH1	ARG	H	26	68.605	52.881	61.337	1.00	46.68	7
ATOM	20566	NH2	ARG	H	26	66.583	51.962	61.940	1.00	45.14	7
ATOM	20567	C	ARG	H	26	67.186	56.436	58.438	1.00	56.51	6
ATOM	20568	O	ARG	H	26	67.410	55.293	58.053	1.00	56.26	8
ATOM	20569	N	ALA	H	27	66.112	57.120	58.075	1.00	61.12	7
ATOM	20570	CA	ALA	H	27	65.144	56.557	57.162	1.00	63.44	6
ATOM	20571	CB	ALA	H	27	64.129	57.633	56.764	1.00	48.64	6
ATOM	20572	C	ALA	H	27	65.940	56.081	55.948	1.00	65.57	6
ATOM	20573	O	ALA	H	27	65.574	55.099	55.300	1.00	65.48	8
ATOM	20574	N	GLN	H	28	67.043	56.782	55.672	1.00	65.54	7
ATOM	20575	CA	GLN	H	28	67.927	56.474	54.545	1.00	68.75	6
ATOM	20576	CB	GLN	H	28	68.654	57.731	54.071	1.00	110.27	6
ATOM	20577	CG	GLN	H	28	69.526	57.494	52.855	1.00	112.49	6
ATOM	20578	CD	GLN	H	28	70.453	58.647	52.568	1.00	114.71	6
ATOM	20579	OE1	GLN	H	28	71.287	59.005	53.396	1.00	116.10	8
ATOM	20580	NE2	GLN	H	28	70.316	59.237	51.387	1.00	116.29	7
ATOM	20581	C	GLN	H	28	68.964	55.424	54.921	1.00	70.11	6
ATOM	20582	O	GLN	H	28	70.167	55.652	54.798	1.00	70.08	8
ATOM	20583	N	GLN	H	29	68.479	54.279	55.387	1.00	103.66	7
ATOM	20584	CA	GLN	H	29	69.312	53.152	55.802	1.00	105.28	6
ATOM	20585	CB	GLN	H	29	70.363	53.610	56.825	1.00	193.59	6
ATOM	20586	CG	GLN	H	29	71.553	52.662	57.012	1.00	197.64	6
ATOM	20587	CD	GLN	H	29	72.482	52.606	55.800	1.00	199.79	6
ATOM	20588	OE1	GLN	H	29	72.958	53.633	55.315	1.00	201.30	8
ATOM	20589	NE2	GLN	H	29	72.752	51.399	55.319	1.00	199.49	7
ATOM	20590	C	GLN	H	29	68.315	52.192	56.447	1.00	104.60	6
ATOM	20591	O	GLN	H	29	68.576	51.001	56.627	1.00	103.61	8
ATOM	20592	N	LEU	H	30	67.162	52.750	56.793	1.00	78.51	7
ATOM	20593	CA	LEU	H	30	66.072	52.005	57.395	1.00	77.56	6
ATOM	20594	CB	LEU	H	30	65.098	52.984	58.065	1.00	76.20	6
ATOM	20595	CG	LEU	H	30	63.918	52.502	58.918	1.00	76.30	6
ATOM	20596	CD1	LEU	H	30	64.383	52.072	60.301	1.00	76.47	6
ATOM	20597	CD2	LEU	H	30	62.925	53.645	59.055	1.00	76.36	6
ATOM	20598	C	LEU	H	30	65.433	51.360	56.180	1.00	76.72	6
ATOM	20599	O	LEU	H	30	66.124	50.776	55.351	1.00	77.37	8

ATOM	20600	N	LEU	H	31	64.119	51.484	56.069	1.00	41.99	7
ATOM	20601	CA	LEU	H	31	63.377	50.952	54.933	1.00	40.88	6
ATOM	20602	CB	LEU	H	31	61.876	51.298	55.100	1.00	41.76	6
ATOM	20603	CG	LEU	H	31	60.787	50.270	55.501	1.00	40.39	6
ATOM	20604	CD1	LEU	H	31	61.199	49.438	56.687	1.00	39.57	6
ATOM	20605	CD2	LEU	H	31	59.499	51.010	55.827	1.00	40.61	6
ATOM	20606	C	LEU	H	31	63.935	51.527	53.602	1.00	40.65	6
ATOM	20607	O	LEU	H	31	63.234	51.581	52.592	1.00	39.31	8
ATOM	20608	N	ARG	H	32	65.193	51.966	53.612	1.00	78.66	7
ATOM	20609	CA	ARG	H	32	65.837	52.497	52.410	1.00	80.40	6
ATOM	20610	CB	ARG	H	32	66.870	53.572	52.786	1.00	95.88	6
ATOM	20611	CG	ARG	H	32	68.337	53.135	52.725	1.00	95.99	6
ATOM	20612	CD	ARG	H	32	69.102	53.870	51.623	1.00	95.72	6
ATOM	20613	NE	ARG	H	32	70.518	53.505	51.598	1.00	95.98	7
ATOM	20614	CZ	ARG	H	32	71.375	53.863	50.644	1.00	95.67	6
ATOM	20615	NH1	ARG	H	32	70.970	54.603	49.620	1.00	95.63	7
ATOM	20616	NH2	ARG	H	32	72.640	53.475	50.713	1.00	95.56	7
ATOM	20617	C	ARG	H	32	66.524	51.315	51.720	1.00	81.03	6
ATOM	20618	O	ARG	H	32	66.714	51.287	50.497	1.00	81.36	8
ATOM	20619	N	HIS	H	33	66.903	50.344	52.541	1.00	109.02	7
ATOM	20620	CA	HIS	H	33	67.542	49.116	52.087	1.00	108.53	6
ATOM	20621	CB	HIS	H	33	69.003	49.055	52.552	1.00	122.48	6
ATOM	20622	CG	HIS	H	33	69.993	49.546	51.541	1.00	124.33	6
ATOM	20623	CD2	HIS	H	33	70.889	50.560	51.590	1.00	125.29	6
ATOM	20624	ND1	HIS	H	33	70.174	48.935	50.320	1.00	125.38	7
ATOM	20625	CE1	HIS	H	33	71.141	49.550	49.660	1.00	125.83	6
ATOM	20626	NE2	HIS	H	33	71.592	50.540	50.409	1.00	125.62	7
ATOM	20627	C	HIS	H	33	66.761	47.995	52.762	1.00	107.63	6
ATOM	20628	O	HIS	H	33	65.845	47.405	52.188	1.00	108.16	8
ATOM	20629	N	ALA	H	34	67.128	47.746	54.011	1.00	31.83	7
ATOM	20630	CA	ALA	H	34	66.522	46.722	54.832	1.00	30.66	6
ATOM	20631	CB	ALA	H	34	67.342	46.556	56.117	1.00	42.18	6
ATOM	20632	C	ALA	H	34	65.070	47.028	55.168	1.00	30.40	6
ATOM	20633	O	ALA	H	34	64.273	47.361	54.294	1.00	29.31	8
ATOM	20634	N	ALA	H	35	64.747	46.899	56.449	1.00	82.73	7
ATOM	20635	CA	ALA	H	35	63.408	47.135	56.976	1.00	84.31	6
ATOM	20636	CB	ALA	H	35	62.374	46.385	56.155	1.00	112.48	6
ATOM	20637	C	ALA	H	35	63.444	46.597	58.405	1.00	84.82	6
ATOM	20638	O	ALA	H	35	62.571	46.872	59.231	1.00	85.14	8
ATOM	20639	N	ALA	H	36	64.491	45.830	58.678	1.00	78.81	7

ATOM	20656	CG2	THR	H	38	60.526	48.845	63.963	1.00123.16	6
ATOM	20657	C	THR	H	38	63.284	48.884	64.981	1.00 97.60	6
ATOM	20658	O	THR	H	38	64.127	48.109	65.422	1.00 98.49	8
ATOM	20659	N	VAL	H	39	62.582	49.699	65.751	1.00 75.84	7
ATOM	20660	CA	VAL	H	39	62.751	49.738	67.195	1.00 76.63	6
ATOM	20661	CB	VAL	H	39	63.574	50.982	67.627	1.00 75.51	6
ATOM	20662	CG1	VAL	H	39	63.757	51.001	69.129	1.00 75.66	6
ATOM	20663	CG2	VAL	H	39	64.921	50.965	66.920	1.00 74.82	6
ATOM	20664	C	VAL	H	39	61.327	49.873	67.730	1.00 77.84	6
ATOM	20665	O	VAL	H	39	61.088	49.895	68.937	1.00 77.57	8
ATOM	20666	N	LEU	H	40	60.379	49.945	66.804	1.00122.58	7
ATOM	20667	CA	LEU	H	40	58.983	50.129	67.140	1.00124.80	6
ATOM	20668	CB	LEU	H	40	58.451	51.322	66.357	1.00 89.47	6
ATOM	20669	CG	LEU	H	40	59.504	52.361	65.979	1.00 89.93	6
ATOM	20670	CD1	LEU	H	40	58.894	53.377	65.035	1.00 90.11	6
ATOM	20671	CD2	LEU	H	40	60.058	53.028	67.230	1.00 90.05	6
ATOM	20672	C	LEU	H	40	58.146	48.897	66.824	1.00126.55	6
ATOM	20673	O	LEU	H	40	56.909	48.964	66.797	1.00126.66	8
ATOM	20674	N	ALA	H	41	58.802	47.767	66.599	1.00208.87	7
ATOM	20675	CA	ALA	H	41	58.080	46.544	66.270	1.00208.87	6
ATOM	20676	CB	ALA	H	41	58.997	45.650	65.409	1.00161.16	6
ATOM	20677	C	ALA	H	41	57.462	45.725	67.399	1.00208.87	6
ATOM	20678	O	ALA	H	41	56.910	44.660	67.158	1.00208.87	8
ATOM	20679	N	PRO	H	42	57.541	46.200	68.650	1.00208.87	7
ATOM	20680	CD	PRO	H	42	58.372	47.229	69.296	1.00169.16	6
ATOM	20681	CA	PRO	H	42	56.923	45.345	69.671	1.00208.87	6
ATOM	20682	CB	PRO	H	42	57.598	45.806	70.979	1.00169.61	6
ATOM	20683	CG	PRO	H	42	57.858	47.257	70.709	1.00169.89	6
ATOM	20684	C	PRO	H	42	55.402	45.465	69.767	1.00208.87	6
ATOM	20685	O	PRO	H	42	54.684	44.471	69.976	1.00208.87	8
ATOM	20686	N	ALA	H	43	54.912	46.683	69.572	1.00166.32	7
ATOM	20687	CA	ALA	H	43	53.484	46.970	69.646	1.00165.47	6
ATOM	20688	CB	ALA	H	43	52.945	46.587	71.015	1.00 82.37	6
ATOM	20689	C	ALA	H	43	53.325	48.471	69.414	1.00164.85	6
ATOM	20690	O	ALA	H	43	52.211	49.003	69.426	1.00164.86	8
ATOM	20691	N	GLU	H	44	54.462	49.141	69.220	1.00115.40	7
ATOM	20692	CA	GLU	H	44	54.509	50.579	68.984	1.00114.09	6
ATOM	20693	CB	GLU	H	44	55.446	51.252	69.998	1.00 68.90	6
ATOM	20694	CG	GLU	H	44	56.815	50.602	70.134	1.00 68.56	6
ATOM	20695	CD	GLU	H	44	57.746	51.359	71.073	1.00 68.07	6
ATOM	20696	OE1	GLU	H	44	57.288	51.768	72.154	1.00 68.52	8
ATOM	20697	OE2	GLU	H	44	58.933	51.543	70.728		



ATOM	20712	N	LYS	H	47	51.363	52.449	61.805	1.00	77.55	7
ATOM	20713	CA	LYS	H	47	50.398	51.763	60.955	1.00	76.32	6
ATOM	20714	CB	LYS	H	47	49.602	50.768	61.788	1.00	60.45	6
ATOM	20715	CG	LYS	H	47	50.488	49.829	62.600	1.00	59.93	6
ATOM	20716	CD	LYS	H	47	49.690	48.672	63.200	1.00	60.60	6
ATOM	20717	CE	LYS	H	47	49.929	47.357	62.445	1.00	61.71	6
ATOM	20718	NZ	LYS	H	47	48.915	46.301	62.780	1.00	63.05	7
ATOM	20719	C	LYS	H	47	49.471	52.779	60.298	1.00	76.31	6
ATOM	20720	O	LYS	H	47	49.301	53.886	60.798	1.00	76.41	8
ATOM	20721	N	MET	H	48	48.874	52.397	59.175	1.00	136.18	7
ATOM	20722	CA	MET	H	48	47.990	53.283	58.426	1.00	136.16	6
ATOM	20723	CB	MET	H	48	48.345	53.195	56.946	1.00	59.72	6
ATOM	20724	CG	MET	H	48	47.728	54.261	56.105	1.00	59.53	6
ATOM	20725	SD	MET	H	48	48.121	54.004	54.390	1.00	58.70	16
ATOM	20726	CE	MET	H	48	49.888	54.095	54.463	1.00	59.27	6
ATOM	20727	C	MET	H	48	46.503	52.976	58.618	1.00	136.90	6
ATOM	20728	O	MET	H	48	46.059	52.706	59.732	1.00	138.26	8
ATOM	20729	N	ARG	H	49	45.741	53.023	57.526	1.00	98.70	7
ATOM	20730	CA	ARG	H	49	44.304	52.740	57.549	1.00	99.46	6
ATOM	20731	CB	ARG	H	49	43.571	53.715	58.474	1.00	165.52	6
ATOM	20732	CG	ARG	H	49	43.250	53.181	59.864	1.00	167.81	6
ATOM	20733	CD	ARG	H	49	42.372	54.177	60.609	1.00	169.11	6
ATOM	20734	NE	ARG	H	49	42.023	53.740	61.956	1.00	170.49	7
ATOM	20735	CZ	ARG	H	49	41.245	54.432	62.784	1.00	171.18	6
ATOM	20736	NH1	ARG	H	49	40.731	55.596	62.400	1.00	170.50	7
ATOM	20737	NH2	ARG	H	49	40.979	53.964	63.996	1.00	171.83	7
ATOM	20738	C	ARG	H	49	43.696	52.840	56.152	1.00	99.81	6
ATOM	20739	O	ARG	H	49	43.645	53.924	55.569	1.00	100.57	8
ATOM	20740	N	THR	H	50	43.226	51.714	55.621	1.00	79.76	7
ATOM	20741	CA	THR	H	50	42.612	51.686	54.291	1.00	80.24	6
ATOM	20742	CB	THR	H	50	43.688	51.772	53.168	1.00	161.47	6
ATOM	20743	OG1	THR	H	50	44.432	52.990	53.304	1.00	162.18	8
ATOM	20744	CG2	THR	H	50	43.036	51.753	51.791	1.00	161.65	6
ATOM	20745	C	THR	H	50	41.773	50.420	54.073	1.00	80.46	6
ATOM	20746	O	THR	H	50	42.195	49.319	54.424	1.00	80.69	8
ATOM	20747	N	ALA	H	51	40.587	50.608	53.493	1.00	170.99	7
ATOM	20748	CA	ALA	H	51	39.633	49.540	53.179	1.00	171.40	6
ATOM	20749	CB	ALA	H	51	39.772	49.144	51.708	1.00	135.49	6
ATOM	20750	C	ALA	H	51	39.688	48.288	54.055	1.00	171.67	6
ATOM	20751	O	ALA	H	51	38.722	47.961	54.746	1.00	171.50	8

ATOM	20768	O	LEU	H	54	46.745	47.670	56.891	1.00	60.52	8
ATOM	20769	N	ALA	H	55	48.304	48.948	57.889	1.00	77.77	7
ATOM	20770	CA	ALA	H	55	49.411	48.574	57.004	1.00	78.07	6
ATOM	20771	CB	ALA	H	55	48.928	48.452	55.557	1.00	81.78	6
ATOM	20772	C	ALA	H	55	50.490	49.648	57.100	1.00	78.45	6
ATOM	20773	O	ALA	H	55	50.365	50.710	56.493	1.00	78.70	8
ATOM	20774	N	ALA	H	56	51.541	49.374	57.868	1.00	173.90	7
ATOM	20775	CA	ALA	H	56	52.640	50.324	58.050	1.00	174.29	6
ATOM	20776	CB	ALA	H	56	53.917	49.573	58.392	1.00	124.91	6
ATOM	20777	C	ALA	H	56	52.854	51.176	56.801	1.00	174.77	6
ATOM	20778	O	ALA	H	56	52.824	50.658	55.684	1.00	175.59	8
ATOM	20779	N	ASP	H	57	53.073	52.478	56.982	1.00	71.54	7
ATOM	20780	CA	ASP	H	57	53.272	53.358	55.830	1.00	70.65	6
ATOM	20781	CB	ASP	H	57	52.810	54.792	56.144	1.00	164.99	6
ATOM	20782	CG	ASP	H	57	53.538	55.405	57.321	1.00	166.34	6
ATOM	20783	OD1	ASP	H	57	54.461	54.755	57.856	1.00	164.60	8
ATOM	20784	OD2	ASP	H	57	53.189	56.542	57.706	1.00	168.33	8
ATOM	20785	C	ASP	H	57	54.702	53.370	55.286	1.00	69.56	6
ATOM	20786	O	ASP	H	57	55.667	53.530	56.029	1.00	70.12	8
ATOM	20787	N	PRO	H	58	54.846	53.197	53.965	1.00	175.82	7
ATOM	20788	CD	PRO	H	58	53.734	53.009	53.018	1.00	126.29	6
ATOM	20789	CA	PRO	H	58	56.132	53.174	53.261	1.00	175.53	6
ATOM	20790	CB	PRO	H	58	55.714	53.109	51.796	1.00	127.10	6
ATOM	20791	CG	PRO	H	58	54.419	52.358	51.856	1.00	127.14	6
ATOM	20792	C	PRO	H	58	57.033	54.375	53.549	1.00	174.24	6
ATOM	20793	O	PRO	H	58	58.243	54.321	53.325	1.00	174.62	8
ATOM	20794	N	ASN	H	59	56.438	55.455	54.041	1.00	50.78	7
ATOM	20795	CA	ASN	H	59	57.180	56.672	54.356	1.00	48.68	6
ATOM	20796	CB	ASN	H	59	56.226	57.742	54.893	1.00	106.68	6
ATOM	20797	CG	ASN	H	59	56.842	59.120	54.901	1.00	108.47	6
ATOM	20798	OD1	ASN	H	59	57.139	59.683	53.852	1.00	109.20	8
ATOM	20799	ND2	ASN	H	59	57.042	59.669	56.084	1.00	108.55	7
ATOM	20800	C	ASN	H	59	58.237	56.349	55.402	1.00	46.84	6
ATOM	20801	O	ASN	H	59	57.916	56.157	56.575	1.00	47.13	8
ATOM	20802	N	ALA	H	60	59.495	56.299	54.970	1.00	93.90	7
ATOM	20803	CA	ALA	H	60	60.618	55.975	55.850	1.00	90.64	6
ATOM	20804	CB	ALA	H	60	61.875	55.758	55.005	1.00	49.58	6
ATOM	20805	C	ALA	H	60	60.886	56.995	56.974	1.00	88.46	6
ATOM	20806	O	ALA	H	60	61.051	56.614	58.138	1.00	88.36	8
ATOM	20807	N	VAL	H	61	60.936	58.280	56.629	1.00	51.76	7
ATOM	20808	CA	VAL	H	61	61.156	59.337	57.622	1.00	48.32	6
ATOM	20809	CB	VAL	H	61	60.849	60.739	57.044	1.00	27.29	6
ATOM	20810	CG1	VAL	H	61	62.109	61.396	56.500	1.00	26.01	6
ATOM	20811	CG2	VAL	H	61	59.811	60.604	55.957	1.00	26.76	6
ATOM	20812	C	VAL	H	61	60.219	59.146	58.813	1.00	46.60	6
ATOM	20813	O	VAL	H	61	60.590	59.401	59.963	1.00	46.66	8
ATOM	20814	N	THR	H	62	58.996	58.707	58.524	1.00	32.73	7
ATOM	20815	CA	THR	H	62	57.996	58.512	59.564	1.00	30.58	6
ATOM	20816	CB	THR	H	62	56.754	57.746	59.039	1.00	91.22	6
ATOM	20817	OG1	THR	H	62	56.239	58.408	57.877	1.00	92.33	8
ATOM	20818	CG2	THR	H	62	55.655	57.705	60.111	1.00	92.71	6
ATOM	20819	C	THR	H	62	58.598	57.752	60.730	1.00	28.54	6
ATOM	20820	O	THR	H	62	58.818	58.321	61.798	1.00	27.90	8
ATOM	20821	N	TRP	H	63	58.878	56.470	60.518	1.00	47.29	7
ATOM	20822	CA	TRP	H	63	59.441	55.649	61.571	1.00	47.12	6
ATOM	20823	CB	TRP	H	63	60.002	54.369	60.998	1.00	55.89	6

ATOM	20824	CG	TRP	H	63	58.961	53.500	60.430	1.00	56.38	6
ATOM	20825	CD2	TRP	H	63	58.571	52.217	60.912	1.00	56.28	6
ATOM	20826	CE2	TRP	H	63	57.597	51.718	60.028	1.00	56.76	6
ATOM	20827	CE3	TRP	H	63	58.953	51.435	62.010	1.00	56.09	6
ATOM	20828	CD1	TRP	H	63	58.224	53.730	59.313	1.00	57.16	6
ATOM	20829	NE1	TRP	H	63	57.403	52.664	59.059	1.00	57.27	7
ATOM	20830	CZ2	TRP	H	63	56.999	50.471	60.201	1.00	57.29	6
ATOM	20831	CZ3	TRP	H	63	58.358	50.197	62.184	1.00	56.08	6
ATOM	20832	CH2	TRP	H	63	57.392	49.726	61.283	1.00	56.89	6
ATOM	20833	C	TRP	H	63	60.536	56.409	62.283	1.00	47.29	6
ATOM	20834	O	TRP	H	63	60.435	56.678	63.482	1.00	46.74	8
ATOM	20835	N	ALA	H	64	61.570	56.773	61.533	1.00	43.86	7
ATOM	20836	CA	ALA	H	64	62.696	57.500	62.098	1.00	44.72	6
ATOM	20837	CB	ALA	H	64	63.431	58.249	61.004	1.00	13.87	6
ATOM	20838	C	ALA	H	64	62.248	58.464	63.183	1.00	45.71	6
ATOM	20839	O	ALA	H	64	62.508	58.239	64.361	1.00	46.59	8
ATOM	20840	N	MET	H	65	61.563	59.530	62.792	1.00	63.70	7
ATOM	20841	CA	MET	H	65	61.116	60.505	63.770	1.00	63.47	6
ATOM	20842	CB	MET	H	65	60.134	61.486	63.133	1.00	47.39	6
ATOM	20843	CG	MET	H	65	60.811	62.505	62.230	1.00	45.91	6
ATOM	20844	SD	MET	H	65	59.660	63.619	61.419	1.00	44.79	16
ATOM	20845	CE	MET	H	65	59.613	62.879	59.784	1.00	42.87	6
ATOM	20846	C	MET	H	65	60.495	59.832	64.985	1.00	64.92	6
ATOM	20847	O	MET	H	65	60.580	60.354	66.093	1.00	65.17	8
ATOM	20848	N	LYS	H	66	59.893	58.663	64.788	1.00	59.31	7
ATOM	20849	CA	LYS	H	66	59.270	57.944	65.894	1.00	61.28	6
ATOM	20850	CB	LYS	H	66	58.046	57.169	65.399	1.00	151.34	6
ATOM	20851	CG	LYS	H	66	56.948	58.054	64.827	1.00	153.48	6
ATOM	20852	CD	LYS	H	66	55.742	57.243	64.380	1.00	154.12	6
ATOM	20853	CE	LYS	H	66	54.685	58.137	63.748	1.00	154.76	6
ATOM	20854	NZ	LYS	H	66	53.501	57.379	63.263	1.00	156.89	7
ATOM	20855	C	LYS	H	66	60.258	56.990	66.551	1.00	61.91	6
ATOM	20856	O	LYS	H	66	60.190	56.727	67.752	1.00	62.08	8
ATOM	20857	N	GLU	H	67	61.180	56.483	65.747	1.00	103.46	7
ATOM	20858	CA	GLU	H	67	62.203	55.552	66.198	1.00	104.40	6
ATOM	20859	CB	GLU	H	67	62.722	54.786	64.975	1.00	70.74	6
ATOM	20860	CG	GLU	H	67	63.845	53.800	65.192	1.00	71.76	6
ATOM	20861	CD	GLU	H	67	64.382	53.273	63.870	1.00	73.23	6
ATOM	20862	OE1	GLU	H	67	63.738	52.419	63.225	1.00	72.69	8
ATOM	20863	OE2	GLU	H	67	65.458	53.735	63.465	1.00		

ATOM	20880	C	LEU	H	69	62.067	58.742	70.951	1.00	35.09	6
ATOM	20881	O	LEU	H	69	61.862	58.985	72.143	1.00	35.06	8
ATOM	20882	N	THR	H	70	62.351	57.535	70.461	1.00	65.83	7
ATOM	20883	CA	THR	H	70	62.451	56.313	71.259	1.00	66.19	6
ATOM	20884	CB	THR	H	70	62.533	55.076	70.340	1.00	57.53	6
ATOM	20885	OG1	THR	H	70	61.577	55.199	69.279	1.00	56.80	8
ATOM	20886	CG2	THR	H	70	62.238	53.812	71.130	1.00	57.67	6
ATOM	20887	C	THR	H	70	63.657	56.290	72.203	1.00	67.12	6
ATOM	20888	O	THR	H	70	63.702	57.028	73.181	1.00	66.97	8
ATOM	20889	N	GLY	H	71	64.635	55.442	71.916	1.00	87.16	7
ATOM	20890	CA	GLY	H	71	65.794	55.377	72.786	1.00	89.30	6
ATOM	20891	C	GLY	H	71	67.070	54.978	72.076	1.00	91.08	6
ATOM	20892	O	GLY	H	71	68.146	55.515	72.350	1.00	90.90	8
ATOM	20893	N	ARG	H	72	66.953	54.033	71.154	1.00	70.67	7
ATOM	20894	CA	ARG	H	72	68.107	53.562	70.414	1.00	72.13	6
ATOM	20895	CB	ARG	H	72	67.709	52.357	69.558	1.00	115.78	6
ATOM	20896	CG	ARG	H	72	67.104	51.217	70.380	1.00	116.51	6
ATOM	20897	CD	ARG	H	72	68.086	50.737	71.446	1.00	117.76	6
ATOM	20898	NE	ARG	H	72	67.431	50.255	72.663	1.00	116.94	7
ATOM	20899	CZ	ARG	H	72	68.080	49.898	73.769	1.00	115.88	6
ATOM	20900	NH1	ARG	H	72	69.403	49.965	73.817	1.00	115.31	7
ATOM	20901	NH2	ARG	H	72	67.407	49.481	74.834	1.00	116.05	7
ATOM	20902	C	ARG	H	72	68.698	54.668	69.553	1.00	72.71	6
ATOM	20903	O	ARG	H	72	68.372	55.842	69.719	1.00	73.18	8
ATOM	20904	N	LEU	H	73	69.581	54.283	68.641	1.00	78.66	7
ATOM	20905	CA	LEU	H	73	70.234	55.231	67.748	1.00	79.90	6
ATOM	20906	CB	LEU	H	73	69.210	56.225	67.179	1.00	62.87	6
ATOM	20907	CG	LEU	H	73	67.857	55.752	66.639	1.00	63.54	6
ATOM	20908	CD1	LEU	H	73	67.295	56.824	65.722	1.00	62.90	6
ATOM	20909	CD2	LEU	H	73	68.014	54.458	65.868	1.00	63.93	6
ATOM	20910	C	LEU	H	73	71.342	56.013	68.460	1.00	81.03	6
ATOM	20911	O	LEU	H	73	71.413	56.040	69.686	1.00	81.93	8
ATOM	20912	N	ALA	H	74	72.199	56.652	67.673	1.00	73.20	7
ATOM	20913	CA	ALA	H	74	73.294	57.463	68.195	1.00	74.49	6
ATOM	20914	CB	ALA	H	74	74.435	56.571	68.633	1.00	131.27	6
ATOM	20915	C	ALA	H	74	73.750	58.410	67.077	1.00	75.22	6
ATOM	20916	O	ALA	H	74	73.253	58.310	65.953	1.00	75.67	8
ATOM	20917	N	PHE	H	75	74.681	59.321	67.364	1.00	51.42	7
ATOM	20918	CA	PHE	H	75	75.147	60.249	66.339	1.00	52.35	6
ATOM	20919	CB	PHE	H	75	73.970	61.078	65.825	1.00	111.18	6

ATOM	20936	CD	GLU	H	77	84.416	61.299	63.570	1.00	94.00	6
ATOM	20937	OE1	GLU	H	77	83.386	61.034	62.910	1.00	94.23	8
ATOM	20938	OE2	GLU	H	77	85.437	61.788	63.041	1.00	94.19	8
ATOM	20939	C	GLU	H	77	81.953	59.289	65.591	1.00	79.04	6
ATOM	20940	O	GLU	H	77	82.931	58.592	65.293	1.00	79.54	8
ATOM	20941	N	ASN	H	78	80.848	58.807	66.154	1.00	125.12	7
ATOM	20942	CA	ASN	H	78	80.649	57.411	66.501	1.00	125.42	6
ATOM	20943	CB	ASN	H	78	79.417	57.293	67.401	1.00	204.16	6
ATOM	20944	CG	ASN	H	78	78.783	55.925	67.345	1.00	204.44	6
ATOM	20945	OD1	ASN	H	78	78.084	55.601	66.388	1.00	202.88	8
ATOM	20946	ND2	ASN	H	78	79.027	55.109	68.365	1.00	205.31	7
ATOM	20947	C	ASN	H	78	80.516	56.487	65.300	1.00	126.30	6
ATOM	20948	O	ASN	H	78	80.052	56.886	64.236	1.00	127.62	8
ATOM	20949	N	LEU	H	79	80.934	55.243	65.511	1.00	110.62	7
ATOM	20950	CA	LEU	H	79	80.917	54.179	64.510	1.00	111.17	6
ATOM	20951	CB	LEU	H	79	79.576	54.133	63.766	1.00	132.86	6
ATOM	20952	CG	LEU	H	79	78.371	53.654	64.588	1.00	132.88	6
ATOM	20953	CD1	LEU	H	79	77.438	52.894	63.681	1.00	133.18	6
ATOM	20954	CD2	LEU	H	79	78.801	52.732	65.731	1.00	132.83	6
ATOM	20955	C	LEU	H	79	82.072	54.277	63.516	1.00	111.11	6
ATOM	20956	O	LEU	H	79	82.439	53.292	62.891	1.00	111.12	8
ATOM	20957	N	ALA	H	80	82.638	55.473	63.403	1.00	122.68	7
ATOM	20958	CA	ALA	H	80	83.764	55.783	62.527	1.00	123.16	6
ATOM	20959	CB	ALA	H	80	85.076	55.429	63.239	1.00	104.62	6
ATOM	20960	C	ALA	H	80	83.764	55.228	61.094	1.00	123.32	6
ATOM	20961	O	ALA	H	80	83.403	55.942	60.163	1.00	123.48	8
ATOM	20962	N	PRO	H	81	84.168	53.958	60.888	1.00	118.44	7
ATOM	20963	CD	PRO	H	81	84.672	52.906	61.792	1.00	173.71	6
ATOM	20964	CA	PRO	H	81	84.159	53.477	59.499	1.00	118.82	6
ATOM	20965	CB	PRO	H	81	84.817	52.101	59.606	1.00	174.43	6
ATOM	20966	CG	PRO	H	81	84.440	51.658	60.987	1.00	174.33	6
ATOM	20967	C	PRO	H	81	82.797	53.423	58.813	1.00	118.74	6
ATOM	20968	O	PRO	H	81	82.007	52.506	59.033	1.00	118.56	8
ATOM	20969	N	ALA	H	82	82.532	54.417	57.976	1.00	90.20	7
ATOM	20970	CA	ALA	H	82	81.279	54.473	57.242	1.00	90.98	6
ATOM	20971	CB	ALA	H	82	81.275	55.693	56.310	1.00	18.02	6
ATOM	20972	C	ALA	H	82	81.218	53.176	56.445	1.00	91.69	6
ATOM	20973	O	ALA	H	82	80.147	52.632	56.167	1.00	91.55	8
ATOM	20974	N	ASP	H	83	82.400	52.683	56.094	1.00	208.87	7
ATOM	20975	CA	ASP	H	83	82.533	51.445	55.345	1.00		

ATOM	20992	O	ARG	H	84	80.185	48.674	59.655	1.00	90.08	8
ATOM	20993	N	LEU	H	85	80.286	50.599	58.473	1.00	94.70	7
ATOM	20994	CA	LEU	H	85	79.012	51.111	58.945	1.00	94.79	6
ATOM	20995	CB	LEU	H	85	78.971	52.632	58.794	1.00	58.74	6
ATOM	20996	CG	LEU	H	85	77.645	53.320	59.129	1.00	58.15	6
ATOM	20997	CD1	LEU	H	85	77.346	53.162	60.610	1.00	58.00	6
ATOM	20998	CD2	LEU	H	85	77.711	54.797	58.727	1.00	58.19	6
ATOM	20999	C	LEU	H	85	77.923	50.466	58.102	1.00	95.17	6
ATOM	21000	O	LEU	H	85	76.769	50.367	58.522	1.00	95.24	8
ATOM	21001	N	ALA	H	86	78.309	50.026	56.908	1.00	162.60	7
ATOM	21002	CA	ALA	H	86	77.389	49.370	55.989	1.00	163.48	6
ATOM	21003	CB	ALA	H	86	77.351	50.113	54.661	1.00	148.76	6
ATOM	21004	C	ALA	H	86	77.845	47.934	55.773	1.00	163.77	6
ATOM	21005	O	ALA	H	86	77.064	47.075	55.367	1.00	163.80	8
ATOM	21006	N	ALA	H	87	79.120	47.681	56.037	1.00	104.44	7
ATOM	21007	CA	ALA	H	87	79.664	46.341	55.876	1.00	104.76	6
ATOM	21008	CB	ALA	H	87	81.168	46.348	56.136	1.00	143.84	6
ATOM	21009	C	ALA	H	87	78.956	45.442	56.878	1.00	104.89	6
ATOM	21010	O	ALA	H	87	78.645	44.284	56.594	1.00	104.28	8
ATOM	21011	N	ALA	H	88	78.701	46.000	58.055	1.00	80.31	7
ATOM	21012	CA	ALA	H	88	78.025	45.275	59.113	1.00	81.22	6
ATOM	21013	CB	ALA	H	88	78.063	46.092	60.402	1.00	112.51	6
ATOM	21014	C	ALA	H	88	76.582	45.004	58.683	1.00	81.94	6
ATOM	21015	O	ALA	H	88	75.892	44.153	59.261	1.00	82.24	8
ATOM	21016	N	MET	H	89	76.133	45.731	57.664	1.00	83.34	7
ATOM	21017	CA	MET	H	89	74.782	45.564	57.145	1.00	85.09	6
ATOM	21018	CB	MET	H	89	74.411	46.732	56.228	1.00	155.16	6
ATOM	21019	CG	MET	H	89	74.405	48.097	56.901	1.00	156.58	6
ATOM	21020	SD	MET	H	89	73.093	48.296	58.117	1.00	157.37	16
ATOM	21021	CE	MET	H	89	71.678	48.571	57.029	1.00	157.12	6
ATOM	21022	C	MET	H	89	74.712	44.255	56.360	1.00	85.71	6
ATOM	21023	O	MET	H	89	73.627	43.721	56.115	1.00	85.41	8
ATOM	21024	N	GLU	H	90	75.877	43.746	55.963	1.00	208.87	7
ATOM	21025	CA	GLU	H	90	75.950	42.493	55.217	1.00	208.87	6
ATOM	21026	CB	GLU	H	90	77.306	42.342	54.529	1.00	136.26	6
ATOM	21027	CG	GLU	H	90	77.457	41.014	53.798	1.00	136.21	6
ATOM	21028	CD	GLU	H	90	78.880	40.746	53.353	1.00	136.54	6
ATOM	21029	OE1	GLU	H	90	79.460	41.610	52.666	1.00	137.49	8
ATOM	21030	OE2	GLU	H	90	79.417	39.667	53.685	1.00	136.05	8
ATOM	21031	C	GLU	H	90	75.763	41.333	56.177	1.00	208.87	6
ATOM	21032	O	GLU	H	90	75.142	40.323	55.843	1.00	208.87	8
ATOM	21033	N	ARG	H	91	76.320	41.487	57.373	1.00	172.42	7
ATOM	21034	CA	ARG	H	91	76.222	40.463	58.396	1.00	172.92	6
ATOM	21035	CB	ARG	H	91	76.926	40.931	59.678	1.00	130.88	6
ATOM	21036	CG	ARG	H	91	77.084	39.848	60.750	1.00	131.31	6
ATOM	21037	CD	ARG	H	91	77.854	40.355	61.973	1.00	131.44	6
ATOM	21038	NE	ARG	H	91	77.774	39.432	63.107	1.00	131.71	7
ATOM	21039	CZ	ARG	H	91	78.253	39.698	64.319	1.00	131.97	6
ATOM	21040	NH1	ARG	H	91	78.849	40.858	64.557	1.00	131.86	7
ATOM	21041	NH2	ARG	H	91	78.127	38.813	65.299	1.00	132.07	7
ATOM	21042	C	ARG	H	91	74.746	40.185	58.658	1.00	173.25	6
ATOM	21043	O	ARG	H	91	74.389	39.146	59.207	1.00	173.60	8
ATOM	21044	N	LEU	H	92	73.892	41.117	58.241	1.00	114.03	7
ATOM	21045	CA	LEU	H	92	72.446	40.987	58.419	1.00	114.75	6
ATOM	21046	CB	LEU	H	92	72.007	41.810	59.635	1.00	107.98	6
ATOM	21047	CG	LEU	H	92	71.703	41.074	60.951	1.00	108.27	6

ATOM	21048	CD1	LEU	H	92	72.560	39.839	61.125	1.00108.03	6
ATOM	21049	CD2	LEU	H	92	71.926	42.031	62.106	1.00108.24	6
ATOM	21050	C	LEU	H	92	71.651	41.395	57.162	1.00115.02	6
ATOM	21051	O	LEU	H	92	71.385	42.576	56.922	1.00115.36	8
ATOM	21052	N	ALA	H	93	71.286	40.377	56.381	1.00107.07	7
ATOM	21053	CA	ALA	H	93	70.538	40.474	55.121	1.00107.38	6
ATOM	21054	CB	ALA	H	93	69.413	39.437	55.123	1.00103.93	6
ATOM	21055	C	ALA	H	93	69.974	41.823	54.676	1.00107.83	6
ATOM	21056	O	ALA	H	93	69.007	42.319	55.245	1.00107.51	8
ATOM	21057	N	PRO	H	94	70.584	42.432	53.645	1.00125.30	7
ATOM	21058	CD	PRO	H	94	72.012	42.193	53.357	1.00176.05	6
ATOM	21059	CA	PRO	H	94	70.168	43.723	53.083	1.00126.22	6
ATOM	21060	CB	PRO	H	94	71.460	44.514	53.110	1.00176.57	6
ATOM	21061	CG	PRO	H	94	72.439	43.473	52.635	1.00176.89	6
ATOM	21062	C	PRO	H	94	69.625	43.553	51.651	1.00126.83	6
ATOM	21063	O	PRO	H	94	68.743	42.733	51.405	1.00126.67	8
ATOM	21064	N	ALA	H	95	70.157	44.344	50.720	1.00156.49	7
ATOM	21065	CA	ALA	H	95	69.785	44.281	49.304	1.00157.56	6
ATOM	21066	CB	ALA	H	95	70.291	42.973	48.704	1.00137.99	6
ATOM	21067	C	ALA	H	95	68.308	44.456	48.957	1.00158.51	6
ATOM	21068	O	ALA	H	95	67.429	44.246	49.791	1.00158.85	8
ATOM	21069	N	ALA	H	96	68.057	44.830	47.704	1.00208.87	7
ATOM	21070	CA	ALA	H	96	66.704	45.037	47.194	1.00208.87	6
ATOM	21071	CB	ALA	H	96	66.488	46.510	46.870	1.00128.28	6
ATOM	21072	C	ALA	H	96	66.479	44.185	45.945	1.00208.87	6
ATOM	21073	O	ALA	H	96	67.086	43.124	45.799	1.00208.87	8
ATOM	21074	N	ALA	H	97	65.619	44.655	45.044	1.00160.31	7
ATOM	21075	CA	ALA	H	97	65.313	43.912	43.820	1.00160.01	6
ATOM	21076	CB	ALA	H	97	63.929	43.288	43.932	1.00165.04	6
ATOM	21077	C	ALA	H	97	65.391	44.749	42.548	1.00159.89	6
ATOM	21078	O	ALA	H	97	65.117	45.950	42.564	1.00160.00	8
ATOM	21079	N	GLU	H	98	65.756	44.101	41.444	1.00110.78	7
ATOM	21080	CA	GLU	H	98	65.862	44.776	40.150	1.00110.73	6
ATOM	21081	CB	GLU	H	98	67.267	45.354	39.958	1.00111.96	6
ATOM	21082	CG	GLU	H	98	67.793	46.113	41.160	1.00112.01	6
ATOM	21083	CD	GLU	H	98	69.141	46.736	40.902	1.00112.19	6
ATOM	21084	OE1	GLU	H	98	69.977	46.079	40.248	1.00111.88	8
ATOM	21085	OE2	GLU	H	98	69.369	47.874	41.363	1.00113.13	8
ATOM	21086	C	GLU	H	98	65.553	43.817	38.999	1.00110.66	6
ATOM	21087	O	GLU	H	98	65.243	42.639	39.275	1.00110.53	8
ATOM	21088	OXT	GLU	H	98	65.625	44.257	37.832	1.00112.67	8
ATOM	21089	MG+2	MG2	I	1	45.303	87.748	42.601		

ATOM	21104	C	ALA	K	4	154.047	109.740	-44.687	1.00126.86	6
ATOM	21105	O	ALA	K	4	152.916	109.822	-45.161	1.00127.60	8
ATOM	21106	N	ALA	K	5	154.857	110.794	-44.597	1.00 32.02	7
ATOM	21107	CA	ALA	K	5	154.416	112.103	-45.090	1.00 33.06	6
ATOM	21108	CB	ALA	K	5	153.189	112.582	-44.302	1.00 19.54	6
ATOM	21109	C	ALA	K	5	155.498	113.172	-45.040	1.00 34.91	6
ATOM	21110	O	ALA	K	5	155.279	114.250	-44.471	1.00 34.68	8
ATOM	21111	N	ALA	K	6	156.642	112.870	-45.656	1.00 98.60	7
ATOM	21112	CA	ALA	K	6	157.816	113.753	-45.709	1.00100.93	6
ATOM	21113	CB	ALA	K	6	158.805	113.233	-46.750	1.00 59.34	6
ATOM	21114	C	ALA	K	6	157.551	115.238	-45.963	1.00102.61	6
ATOM	21115	O	ALA	K	6	156.952	115.616	-46.968	1.00103.52	8
ATOM	21116	N	ALA	K	7	158.027	116.073	-45.044	1.00 67.32	7
ATOM	21117	CA	ALA	K	7	157.875	117.517	-45.135	1.00 68.87	6
ATOM	21118	CB	ALA	K	7	157.396	118.086	-43.804	1.00 59.22	6
ATOM	21119	C	ALA	K	7	159.251	118.059	-45.479	1.00 70.43	6
ATOM	21120	O	ALA	K	7	160.210	117.286	-45.581	1.00 70.10	8
ATOM	21121	N	ALA	K	8	159.345	119.381	-45.641	1.00 96.74	7
ATOM	21122	CA	ALA	K	8	160.602	120.031	-46.006	1.00 98.15	6
ATOM	21123	CB	ALA	K	8	160.624	120.282	-47.503	1.00 53.20	6
ATOM	21124	C	ALA	K	8	160.909	121.336	-45.278	1.00 99.80	6
ATOM	21125	O	ALA	K	8	161.739	121.374	-44.366	1.00100.81	8
ATOM	21126	N	ALA	K	9	160.242	122.404	-45.705	1.00208.87	7
ATOM	21127	CA	ALA	K	9	160.441	123.740	-45.149	1.00208.87	6
ATOM	21128	CB	ALA	K	9	159.677	124.758	-45.998	1.00125.45	6
ATOM	21129	C	ALA	K	9	160.070	123.913	-43.675	1.00208.87	6
ATOM	21130	O	ALA	K	9	159.044	124.520	-43.363	1.00208.87	8
ATOM	21131	N	ALA	K	10	160.917	123.396	-42.785	1.00 93.41	7
ATOM	21132	CA	ALA	K	10	160.723	123.483	-41.337	1.00 93.15	6
ATOM	21133	CB	ALA	K	10	159.242	123.417	-40.976	1.00102.75	6
ATOM	21134	C	ALA	K	10	161.457	122.343	-40.657	1.00 93.40	6
ATOM	21135	O	ALA	K	10	162.666	122.518	-40.399	1.00 93.15	8
ATOM	21136	OXT	ALA	K	10	160.818	121.292	-40.408	1.00101.68	8
ATOM	21137	CB	ALA	L	20	150.457	116.704	-34.486	1.00 66.36	6
ATOM	21138	C	ALA	L	20	148.118	115.853	-34.285	1.00151.44	6
ATOM	21139	O	ALA	L	20	148.618	114.738	-34.438	1.00151.99	8
ATOM	21140	N	ALA	L	20	148.904	117.702	-32.833	1.00151.58	7
ATOM	21141	CA	ALA	L	20	149.006	117.084	-34.186	1.00151.20	6
ATOM	21142	N	ALA	L	21	146.808	116.070	-34.187	1.00 57.67	7
ATOM	21143	CA	ALA	L	21	145.801	115.009	-34.274	1.00 57.13	6
ATOM	21144	CB	ALA	L	21	146.357	113.798	-35.032	1.00 33.92	6
ATOM	21145	C	ALA	L	21	145.269	114.562	-32.922	1.00 57.24	6
ATOM	21146	O	ALA	L	21	144.757	115.363	-32.147	1.00 56.89	8
ATOM	21147	N	ALA	L	22	145.388	113.265	-32.662	1.00126.91	7
ATOM	21148	CA	ALA	L	22	144.933	112.655	-31.421	1.00128.43	6
ATOM	21149	CB	ALA	L	22	143.412	112.529	-31.423	1.00 95.96	6
ATOM	21150	C	ALA	L	22	145.576	111.280	-31.379	1.00129.17	6
ATOM	21151	O	ALA	L	22	144.910	110.274	-31.137	1.00130.00	8
ATOM	21152	N	ALA	L	23	146.882	111.247	-31.626	1.00103.66	7
ATOM	21153	CA	ALA	L	23	147.622	109.996	-31.644	1.00102.70	6
ATOM	21154	CB	ALA	L	23	147.159	109.169	-32.809	1.00 57.04	6
ATOM	21155	C	ALA	L	23	149.117	110.255	-31.758	1.00102.46	6
ATOM	21156	O	ALA	L	23	149.556	110.931	-32.688	1.00102.85	8
ATOM	21157	N	ALA	L	24	149.891	109.702	-30.822	1.00 74.77	7
ATOM	21158	CA	ALA	L	24	151.350	109.879	-30.802	1.00 74.64	6
ATOM	21159	CB	ALA	L	24	151.956	109.157	-29.580	1.00 17.69	6



ATOM	21160	C	ALA	L	24	152.031	109.394	-32.081	1.00	74.88	6
ATOM	21161	O	ALA	L	24	151.611	109.746	-33.184	1.00	74.18	8
ATOM	21162	N	ALA	L	25	153.093	108.605	-31.911	1.00	94.81	7
ATOM	21163	CA	ALA	L	25	153.848	108.053	-33.031	1.00	96.36	6
ATOM	21164	CB	ALA	L	25	153.794	109.014	-34.212	1.00	54.01	6
ATOM	21165	C	ALA	L	25	155.314	107.732	-32.718	1.00	97.37	6
ATOM	21166	O	ALA	L	25	155.667	107.220	-31.648	1.00	98.51	8
ATOM	21167	N	ALA	L	26	156.147	108.037	-33.707	1.00	88.34	7
ATOM	21168	CA	ALA	L	26	157.591	107.854	-33.677	1.00	87.95	6
ATOM	21169	CB	ALA	L	26	157.943	106.396	-33.726	1.00	13.87	6
ATOM	21170	C	ALA	L	26	158.024	108.552	-34.956	1.00	88.24	6
ATOM	21171	O	ALA	L	26	157.241	109.298	-35.542	1.00	88.35	8
ATOM	21172	N	ALA	L	27	159.246	108.323	-35.410	1.00	76.54	7
ATOM	21173	CA	ALA	L	27	159.689	108.997	-36.621	1.00	77.54	6
ATOM	21174	CB	ALA	L	27	160.137	110.415	-36.290	1.00	85.17	6
ATOM	21175	C	ALA	L	27	160.807	108.250	-37.306	1.00	78.24	6
ATOM	21176	O	ALA	L	27	161.356	107.303	-36.752	1.00	78.60	8
ATOM	21177	N	ALA	L	28	161.141	108.681	-38.516	1.00	55.91	7
ATOM	21178	CA	ALA	L	28	162.207	108.050	-39.273	1.00	56.77	6
ATOM	21179	CB	ALA	L	28	161.822	106.625	-39.624	1.00	46.12	6
ATOM	21180	C	ALA	L	28	162.499	108.841	-40.538	1.00	57.75	6
ATOM	21181	O	ALA	L	28	161.829	109.828	-40.823	1.00	58.27	8
ATOM	21182	N	ALA	L	29	163.516	108.405	-41.279	1.00	96.75	7
ATOM	21183	CA	ALA	L	29	163.925	109.039	-42.533	1.00	98.03	6
ATOM	21184	CB	ALA	L	29	162.711	109.221	-43.441	1.00	147.96	6
ATOM	21185	C	ALA	L	29	164.669	110.366	-42.371	1.00	98.81	6
ATOM	21186	O	ALA	L	29	164.579	111.028	-41.337	1.00	98.47	8
ATOM	21187	N	ALA	L	30	165.399	110.745	-43.416	1.00	103.95	7
ATOM	21188	CA	ALA	L	30	166.180	111.973	-43.411	1.00	105.83	6
ATOM	21189	CB	ALA	L	30	167.160	111.939	-42.251	1.00	117.60	6
ATOM	21190	C	ALA	L	30	166.941	112.148	-44.727	1.00	106.99	6
ATOM	21191	O	ALA	L	30	167.149	111.178	-45.452	1.00	107.48	8
ATOM	21192	N	ALA	L	31	167.350	113.388	-45.014	1.00	111.67	7
ATOM	21193	CA	ALA	L	31	168.109	113.767	-46.217	1.00	111.87	6
ATOM	21194	CB	ALA	L	31	168.839	112.555	-46.811	1.00	111.02	6
ATOM	21195	C	ALA	L	31	167.275	114.446	-47.299	1.00	112.34	6
ATOM	21196	O	ALA	L	31	166.042	114.409	-47.266	1.00	112.64	8
ATOM	21197	N	ALA	L	32	167.977	115.061	-48.253	1.00	104.58	7
ATOM	21198	CA	ALA	L	32	167.382	115.779	-49.382	1.00	105.61	6
ATOM	21199	CB	ALA	L	32	166.051	115.139	-49.788	1.00	131.34	6
ATOM	21200	C	ALA	L	32	167.174	117.252	-49.052	1.00	106.17	6
ATOM	21201	O	ALA	L	32	167.865	117.811	-48.201	1.00	106.73	8
ATOM	21202	N	ALA	L	33	166.230	117.879	-49.746	1.00	164.25	7
ATOM	21203	CA	ALA	L	33	165.906	119.281	-49.511	1.00	164.22	6
ATOM	21204	CB	ALA	L	33	165.548	119.970	-50.816	1.00	122.86	6
ATOM	21205	C	ALA	L	33	164.712	119.288	-48.572	1.00	164.08	6
ATOM	21206	O	ALA	L	33	164.339	120.325	-48.023	1.00	164.22	8
ATOM	21207	N	ALA	L	34	164.120	118.108	-48.407	1.00	94.79	7
ATOM	21208	CA	ALA	L	34	162.967	117.918	-47.538	1.00	94.68	6
ATOM	21209	CB	ALA	L	34	161.853	117.207	-48.293	1.00	157.98	6
ATOM	21210	C	ALA	L	34	163.375	117.106	-46.316	1.00	94.23	6
ATOM	21211	O	ALA	L	34	164.406	116.437	-46.320	1.00	94.34	8
ATOM	21212	N	ALA	L	35	162.555	117.156	-45.275	1.00	121.08	7
ATOM	21213	CA	ALA	L	35	162.844	116.447	-44.040	1.00	120.47	6
ATOM	21214	CB	ALA	L	35	161.951	116.988	-42.928	1.00	141.46	6
ATOM	21215	C	ALA	L	35	162.714	114.925	-44.114	1.00	119.62	6

ATOM	21216	O	ALA	L	35	163.622	114.200	-43.703	1.00120.56	8
ATOM	21217	N	ALA	L	36	161.588	114.457	-44.646	1.00149.03	7
ATOM	21218	CA	ALA	L	36	161.273	113.030	-44.744	1.00146.37	6
ATOM	21219	CB	ALA	L	36	162.551	112.168	-44.670	1.00 13.87	6
ATOM	21220	C	ALA	L	36	160.370	112.780	-43.534	1.00145.31	6
ATOM	21221	O	ALA	L	36	160.173	113.687	-42.726	1.00146.01	8
ATOM	21222	N	ALA	L	37	159.811	111.586	-43.385	1.00120.00	7
ATOM	21223	CA	ALA	L	37	158.935	111.367	-42.240	1.00118.54	6
ATOM	21224	CB	ALA	L	37	157.533	111.800	-42.593	1.00 13.87	6
ATOM	21225	C	ALA	L	37	158.906	109.951	-41.685	1.00117.96	6
ATOM	21226	O	ALA	L	37	159.343	109.710	-40.561	1.00118.82	8
ATOM	21227	N	ALA	L	38	158.379	109.022	-42.476	1.00 54.35	7
ATOM	21228	CA	ALA	L	38	158.258	107.624	-42.071	1.00 52.50	6
ATOM	21229	CB	ALA	L	38	159.641	106.994	-41.961	1.00 83.35	6
ATOM	21230	C	ALA	L	38	157.537	107.601	-40.725	1.00 51.68	6
ATOM	21231	O	ALA	L	38	157.867	106.829	-39.827	1.00 51.03	8
ATOM	21232	N	ALA	L	39	156.546	108.476	-40.605	1.00111.17	7
ATOM	21233	CA	ALA	L	39	155.754	108.608	-39.392	1.00110.47	6
ATOM	21234	CB	ALA	L	39	154.718	109.724	-39.580	1.00 13.87	6
ATOM	21235	C	ALA	L	39	155.073	107.288	-39.010	1.00110.18	6
ATOM	21236	O	ALA	L	39	154.927	106.394	-39.838	1.00110.89	8
ATOM	21237	N	ALA	L	40	154.680	107.165	-37.745	1.00120.20	7
ATOM	21238	CA	ALA	L	40	154.021	105.958	-37.249	1.00119.91	6
ATOM	21239	CB	ALA	L	40	155.037	105.079	-36.496	1.00 46.74	6
ATOM	21240	C	ALA	L	40	152.865	106.354	-36.327	1.00119.74	6
ATOM	21241	O	ALA	L	40	152.980	106.272	-35.103	1.00119.60	8
ATOM	21242	N	ALA	L	41	151.757	106.776	-36.941	1.00133.41	7
ATOM	21243	CA	ALA	L	41	150.545	107.232	-36.246	1.00132.82	6
ATOM	21244	CB	ALA	L	41	149.384	107.316	-37.244	1.00 66.73	6
ATOM	21245	C	ALA	L	41	150.109	106.421	-35.026	1.00132.26	6
ATOM	21246	O	ALA	L	41	150.834	105.544	-34.558	1.00132.13	8
ATOM	21247	N	ALA	L	42	148.918	106.736	-34.513	1.00 46.03	7
ATOM	21248	CA	ALA	L	42	148.350	106.041	-33.351	1.00 45.89	6
ATOM	21249	CB	ALA	L	42	149.065	106.489	-32.056	1.00 22.55	6
ATOM	21250	C	ALA	L	42	146.832	106.230	-33.212	1.00 45.75	6
ATOM	21251	O	ALA	L	42	146.245	105.736	-32.258	1.00 45.13	8
ATOM	21252	N	ALA	L	43	146.226	106.930	-34.178	1.00 73.48	7
ATOM	21253	CA	ALA	L	43	144.787	107.246	-34.247	1.00 74.48	6
ATOM	21254	CB	ALA	L	43	144.183	106.632	-35.526	1.00 13.87	6
ATOM	21255	C	ALA	L	43	143.926	106.888	-33.023	1.00 75.95	6
ATOM	21256	O	ALA	L	43	144.440	106.783	-31.910	1.00 76.87	8
ATOM	21257									

ATOM	21272	OXT	ALA	L	46	135.514	102.728	-31.875	1.00172.19	8
ATOM	21273	C1	RIF	R	1	48.535	97.571	24.909	1.00 48.44	6
ATOM	21274	C2	RIF	R	1	50.953	96.931	24.770	1.00 48.44	6
ATOM	21275	C3	RIF	R	1	53.514	96.552	24.129	1.00 48.44	6
ATOM	21276	C4	RIF	R	1	54.396	97.190	23.105	1.00 48.44	6
ATOM	21277	C5	RIF	R	1	55.661	97.778	23.665	1.00 48.44	6
ATOM	21278	C6	RIF	R	1	51.493	100.052	21.561	1.00 48.44	6
ATOM	21279	C7	RIF	R	1	46.186	97.136	26.970	1.00 48.44	6
ATOM	21280	C8	RIF	R	1	44.950	96.432	27.462	1.00 48.44	6
ATOM	21281	C9	RIF	R	1	44.290	95.430	26.775	1.00 48.44	6
ATOM	21282	C10	RIF	R	1	44.591	94.823	25.453	1.00 48.44	6
ATOM	21283	C11	RIF	R	1	43.975	93.708	25.000	1.00 48.44	6
ATOM	21284	C12	RIF	R	1	48.385	96.576	25.931	1.00 48.44	6
ATOM	21285	C13	RIF	R	1	44.608	92.418	24.492	1.00 48.44	6
ATOM	21286	C14	RIF	R	1	45.584	92.657	23.331	1.00 48.44	6
ATOM	21287	C15	RIF	R	1	46.563	91.517	22.975	1.00 48.44	6
ATOM	21288	C16	RIF	R	1	47.602	91.868	21.900	1.00 48.44	6
ATOM	21289	C17	RIF	R	1	49.044	92.222	22.338	1.00 48.44	6
ATOM	21290	C18	RIF	R	1	49.802	92.855	21.145	1.00 48.44	6
ATOM	21291	C19	RIF	R	1	50.807	93.988	21.507	1.00 48.44	6
ATOM	21292	C20	RIF	R	1	51.788	94.290	20.347	1.00 48.44	6
ATOM	21293	C21	RIF	R	1	52.908	95.313	20.658	1.00 48.44	6
ATOM	21294	C22	RIF	R	1	53.811	95.149	21.637	1.00 48.44	6
ATOM	21295	C23	RIF	R	1	49.457	95.732	26.315	1.00 48.44	6
ATOM	21296	C24	RIF	R	1	44.502	96.928	28.818	1.00 48.44	6
ATOM	21297	C25	RIF	R	1	49.289	94.561	27.183	1.00 48.44	6
ATOM	21298	C26	RIF	R	1	46.669	93.510	29.331	1.00 48.44	6
ATOM	21299	C27	RIF	R	1	46.063	92.158	29.654	1.00 48.44	6
ATOM	21300	C28	RIF	R	1	48.361	91.198	29.811	1.00 48.44	6
ATOM	21301	C29	RIF	R	1	48.909	92.576	29.465	1.00 48.44	6
ATOM	21302	C30	RIF	R	1	46.437	89.991	30.793	1.00 48.44	6
ATOM	21303	C31	RIF	R	1	45.276	91.766	25.727	1.00 48.44	6
ATOM	21304	C32	RIF	R	1	45.824	90.223	22.532	1.00 48.44	6
ATOM	21305	C33	RIF	R	1	49.817	91.008	22.892	1.00 48.44	6
ATOM	21306	C34	RIF	R	1	49.995	95.193	21.899	1.00 48.44	6
ATOM	21307	C35	RIF	R	1	49.896	91.280	19.314	1.00 48.44	6
ATOM	21308	C36	RIF	R	1	50.711	90.240	18.695	1.00 48.44	6
ATOM	21309	C37	RIF	R	1	51.509	94.202	17.934	1.00 48.44	6
ATOM	21310	C38	RIF	R	1	50.740	95.963	25.789	1.00 48.44	6
ATOM	21311	C39	RIF	R	1	52.255	97.183	24.089	1.00 48.44	6
ATOM	21312	C40	RIF	R	1	52.329	98.184	23.066	1.00 48.44	6
ATOM	21313	C41	RIF	R	1	51.324	99.013	22.634	1.00 48.44	6
ATOM	21314	C42	RIF	R	1	50.010	98.822	23.251	1.00 48.44	6
ATOM	21315	C43	RIF	R	1	49.837	97.769	24.323	1.00 48.44	6
ATOM	21316	N1	RIF	R	1	48.294	94.494	28.016	1.00 48.44	7
ATOM	21317	N2	RIF	R	1	47.948	93.290	28.636	1.00 48.44	7
ATOM	21318	N3	RIF	R	1	47.003	91.327	30.489	1.00 48.44	7
ATOM	21319	N4	RIF	R	1	47.096	96.286	26.473	1.00 48.44	7
ATOM	21320	O1	RIF	R	1	47.471	98.266	24.488	1.00 48.44	8
ATOM	21321	O2	RIF	R	1	49.006	99.538	22.893	1.00 48.44	8
ATOM	21322	O3	RIF	R	1	53.573	98.238	22.501	1.00 48.44	8
ATOM	21323	O4	RIF	R	1	53.974	95.598	24.821	1.00 48.44	8
ATOM	21324	O5	RIF	R	1	54.773	96.192	22.056	1.00 48.44	8
ATOM	21325	O6	RIF	R	1	50.986	94.738	19.186	1.00 48.44	8
ATOM	21326	O7	RIF	R	1	50.469	91.795	20.428	1.00 48.44	8
ATOM	21327	O8	RIF	R	1	48.856	91.664	18.913	1.00 48.44	8

ATOM	21328	O9	RIF	R	1	47.161	92.980	21.083	1.00	48.44	8
ATOM	21329	O10	RIF	R	1	44.756	92.982	22.212	1.00	48.44	8
ATOM	21330	O16	RIF	R	1	46.290	98.343	27.047	1.00	48.44	8
ATOM	21331	O17	RIF	R	1	51.732	95.163	26.318	1.00	48.44	8
END											

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